

Induct

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 4 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 5 AUG 30 CA(SM)/CAPLUS(SM) Austrian patent law changes
NEWS 6 SEP 11 CA/CAPLUS enhanced with more pre-1907 records
NEWS 7 SEP 21 CA/CAPLUS fields enhanced with simultaneous left and right
truncation
NEWS 8 SEP 25 CA(SM)/CAPLUS(SM) display of CA Lexicon enhanced
NEWS 9 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme
NEWS 12 OCT 19 LOGOFF HOLD duration extended to 120 minutes
NEWS 13 OCT 19 E-mail format enhanced
NEWS 14 OCT 23 Option to turn off MARPAT highlighting enhancements available
NEWS 15 OCT 23 CAS Registry Number crossover limit increased to 300,000 in
multiple databases
NEWS 16 OCT 23 The Derwent World Patents Index suite of databases on STN
has been enhanced and reloaded
NEWS 17 OCT 30 CHEMLIST enhanced with new search and display field
NEWS 18 NOV 03 JAPIO enhanced with IPC 8 features and functionality

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

11/05/2006 10528398d.trn

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Choice (Y/n):

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=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:32:07 ON 05 NOV 2006

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STRUCTURE FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4

DICTIONARY FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

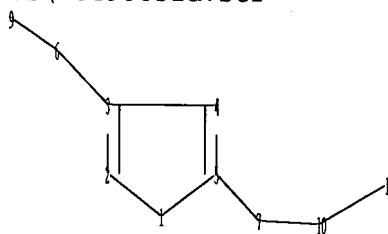
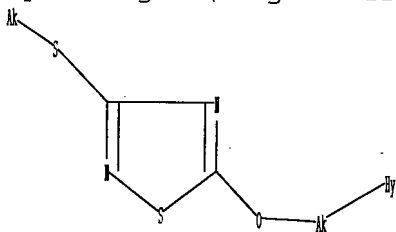
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10498651d.str



chain nodes :
6 7 9 10 11
ring nodes :

11/05/2006 10528398d.trn

1 2 3 4 5
chain bonds :
3-6 5-7 6-9 7-10 10-11
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 2-3 3-4 3-6 4-5 5-7 6-9 7-10 10-11
exact bonds :
1-5
isolated ring systems :
containing 1 :

Match level :

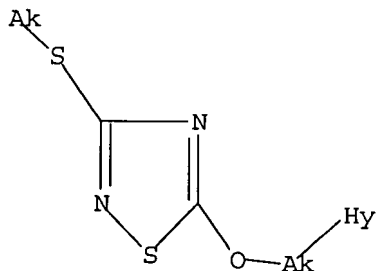
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11:Atom
Element Count :
Node 11: Limited
S,S0

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:32:20 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 9 TO 360

PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

10528398d.trn

Page 3

15:43

3 ANSWERS

11/05/2006 10528398d.trn

=> s 11 sss full
FULL SEARCH INITIATED 15:32:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 244 TO ITERATE

100.0% PROCESSED 244 ITERATIONS
SEARCH TIME: 00.00.01

68 ANSWERS

L3 68 SEA SSS FUL L1

=> FIL HCAPLUS
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 166.94 167.15

FILE 'HCAPLUS' ENTERED AT 15:32:29 ON 05 NOV 2006
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FILE COVERS 1907 - 5 Nov 2006 VOL 145 ISS 20
FILE LAST UPDATED: 3 Nov 2006 (20061103/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

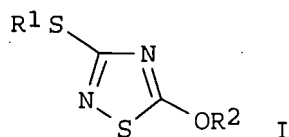
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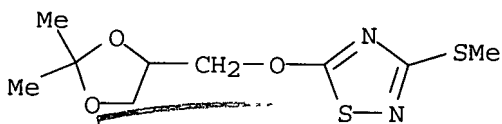
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:333715 HCAPLUS
DOCUMENT NUMBER: 140:339331
TITLE: Preparation of thiadiazole compounds as
arthropodocides
INVENTOR(S): Ihara, Hideki
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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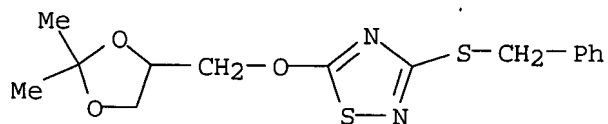
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BR 2003014616 A 20050726 BR 2003-14616 20031007
CN 1703413 A 20051130 CN 2003-80101245 20031007
US 2006014962 A1 20060119 US 2005-528398 20050317
PRIORITY APPLN. INFO.: JP 2002-298489 A 20021011
WO 2003-JP12831 W 20031007
OTHER SOURCE(S): MARPAT 140:339331
GI



AB Title compds. I (R1 = alkyl, alkenyl, alkynyl, etc.; R2 = heterocyclalkyl) are prepared. Thus, reaction of 5-chloro-3-(4-methylbenzyl)thio-1,2,4-thiadiazole with 2,2-dimethyl-1,3-dioxolane-4-methanol in DMF in the presence of NaH at room temperature for 4 h gave 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(4-methylbenzyl)thio-1,2,4-thiadiazole (II). II showed arthropodocidal activity against *Aphis gossypii* at 500 ppm.
IT 680220-80-8P 680220-90-0P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of thiadiazole compds. as arthropodocides)
RN 680220-80-8 HCAPLUS
CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(methylthio)- (9CI) (CA INDEX NAME)



RN 680220-90-0 HCAPLUS
CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



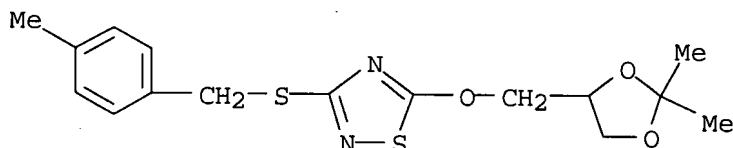
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 680221-15-2P 680221-17-4P 680221-19-6P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiadiazole compds. as arthropodicides)

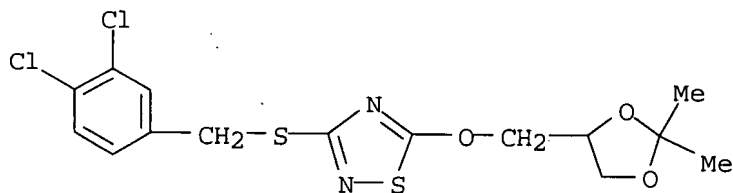
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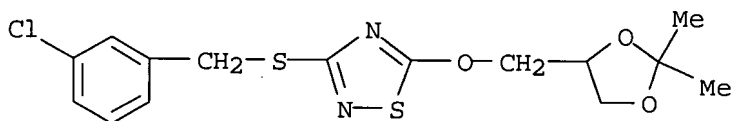
RN 680220-78-4 HCAPLUS

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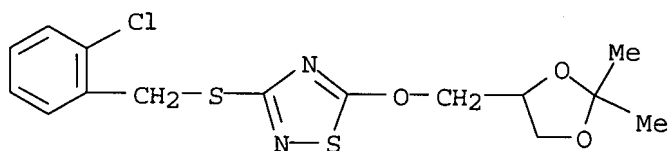
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CN 1,2,4-Thiadiazole, 3-[(3-chlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



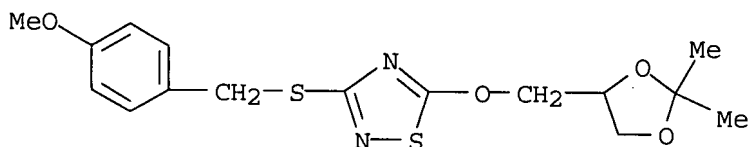
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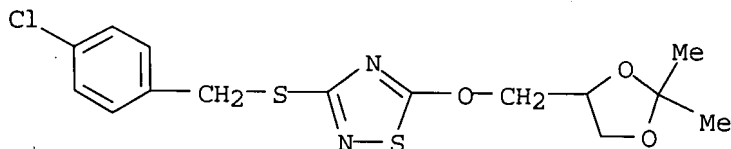
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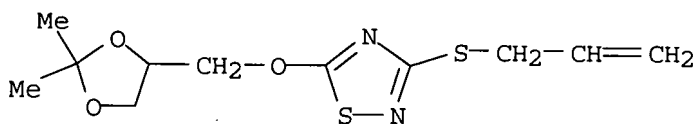
RN 680220-88-6 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[[(4-chlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



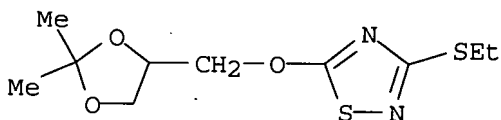
RN 680220-92-2 HCAPLUS

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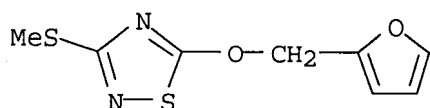
RN 680220-94-4 HCAPLUS

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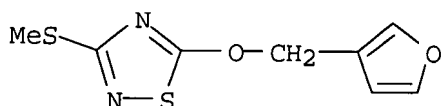


RN 680220-97-7 HCAPLUS

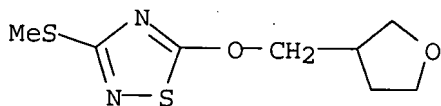
CN 1,2,4-Thiadiazole, 5-(2-furanylmethoxy)-3-(methylthio)- (9CI) (CA INDEX NAME)



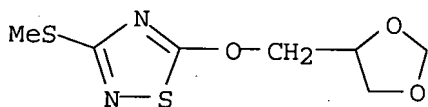
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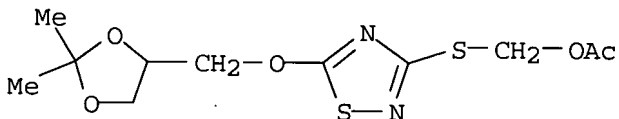
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 CN 1,2,4-Thiadiazole, 3-(methylthio)-5-[(tetrahydro-3-furanyl)methoxy]- (9CI) (CA INDEX NAME)



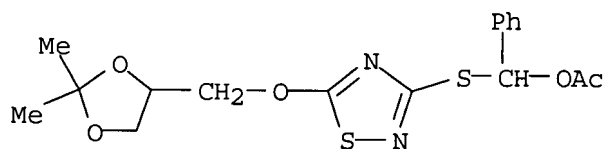
RN 680221-03-8 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-(1,3-dioxolan-4-ylmethoxy)-3-(methylthio)- (9CI) (CA INDEX NAME)



RN 680221-09-4 HCAPLUS
 CN Methanol, [[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)

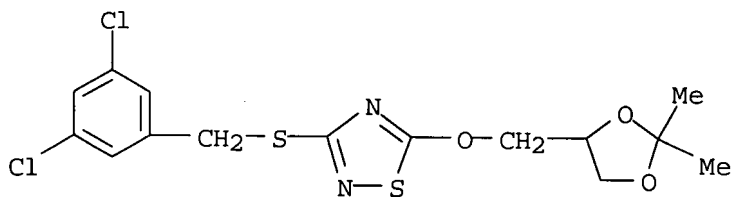


RN 680221-11-8 HCAPLUS
 CN Benzenemethanol, α-[[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



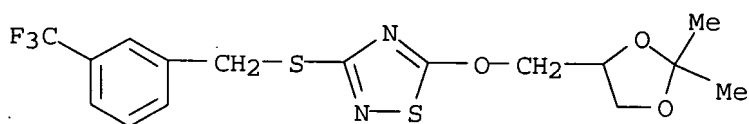
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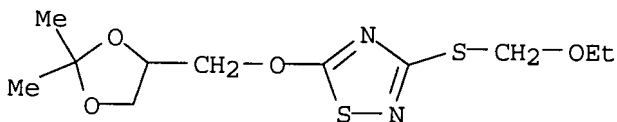
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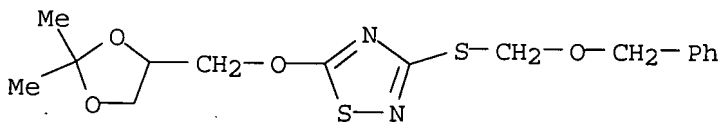
RN 680221-17-4 HCAPLUS

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RN 680221-19-6 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[[phenylmethoxy)methyl]thio]-(9CI) (CA INDEX NAME)



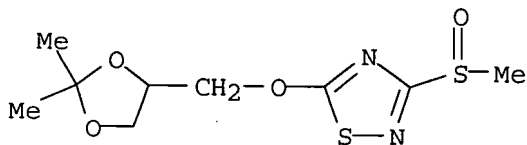
IT 680221-22-1P 680221-23-2P 680221-40-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thiadiazole compds. as arthropodicides)

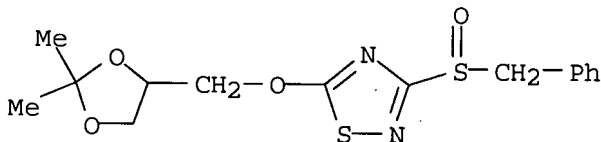
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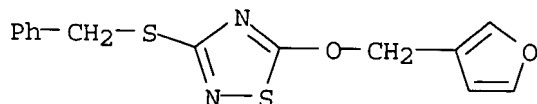
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RN 680221-40-3 HCAPLUS

CN 1,2,4-Thiadiazole, 5-(3-furanylmethoxy)-3-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:570972 HCAPLUS

DOCUMENT NUMBER: 139:133570

TITLE: Preparation of 5-alkyloxy-3-alkylthio-1,2,4-thiadiazole derivatives having control activities against injurious arthropods

INVENTOR(S): Ihara, Hideki; Sakamoto, Noriyasu; Tomioka, Hiroki

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT-Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

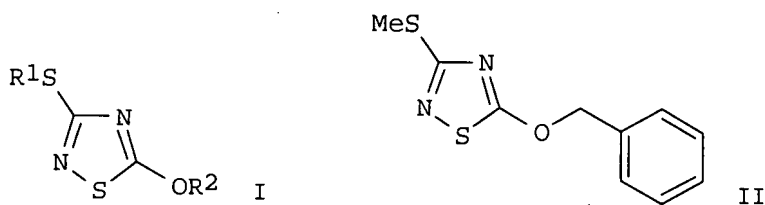
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BR 2003006823 A 20041221 BR 2003-6823 20030115
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 US 2005215578 A1 20050929 US 2004-498651 20040610

PRIORITY APPLN. INFO.: JP 2002-8356 A 20020117
 WO 2003-JP237 W 20030115

OTHER SOURCE(S): MARPAT 139:133570
 GI



AB The title thiadiazole compds. with general formula of I, which have excellent control activities against injurious arthropods, [wherein R¹ = Me, alkenyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkoxyalkyl, alkylthioalkoxyalkyl, (un)substituted PhO-alkyl, Ph-alkoxyalkyl, or acyloxyalkyl; R² = (un)substituted Ph-alkyl, Py-alkyl, or pyrimidylalkyl] are prepared. For example, 5-chloro-3-methylthio-1,2,4-thiadiazole was reacted with PhCH₂OH in DMF in the presence of NaH to give 5-benzyloxy-3-methylthio-1,2,4-thiadiazole (II). I at concentration of 500 ppm killed more than 85% of aphid gossypii on cucumber seedlings in 6 days.

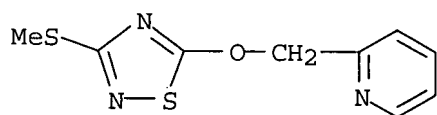
IT 566897-28-7P 566897-29-8P 566897-30-1P
 566897-33-4P 566897-43-6P 566897-44-7P
 566897-45-8P 566897-46-9P 566897-47-0P
 566897-48-1P 566897-49-2P 566897-50-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

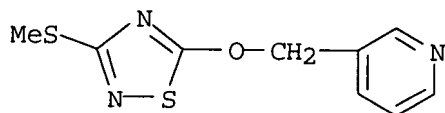
(herbicide; preparation of alkyloxy(alkylthio)thiadiazole derivs. having control activities against injurious arthropods)

RN 566897-28-7 HCAPLUS

CN Pyridine, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl]- (9CI)
 (CA INDEX NAME)

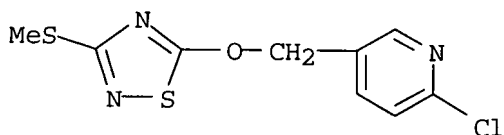


RN 566897-29-8 HCAPLUS

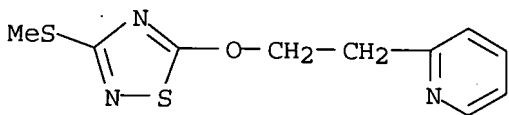
CN Pyridine, 3-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)

RN 566897-30-1 HCAPLUS

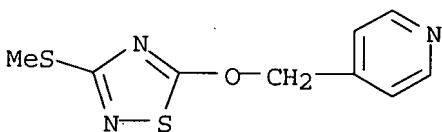
CN Pyridine, 2-chloro-5-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI) (CA INDEX NAME)



RN 566897-33-4 HCAPLUS

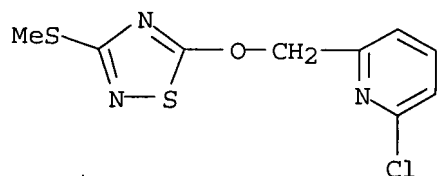
CN Pyridine, 2-[2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]ethyl] - (9CI)
(CA INDEX NAME)

RN 566897-43-6 HCAPLUS

CN Pyridine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)

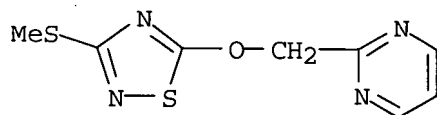
RN 566897-44-7 HCAPLUS

CN Pyridine, 2-chloro-6-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI) (CA INDEX NAME)



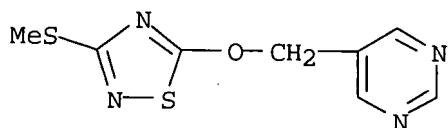
RN 566897-45-8 HCAPLUS

CN Pyrimidine, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)



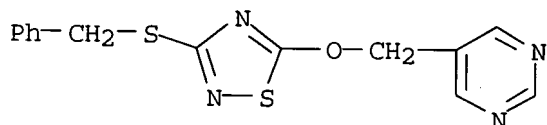
RN 566897-46-9 HCAPLUS

CN Pyrimidine, 5-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)



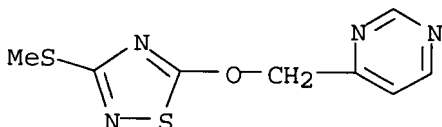
RN 566897-47-0 HCAPLUS

CN Pyrimidine, 5-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)



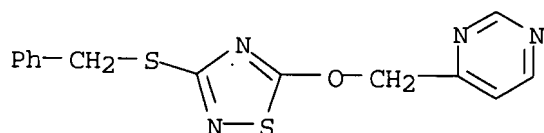
RN 566897-48-1 HCAPLUS

CN Pyrimidine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)

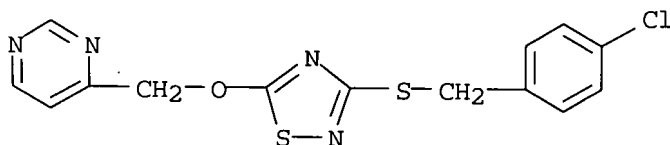


RN 566897-49-2 HCAPLUS

CN Pyrimidine, 4-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)



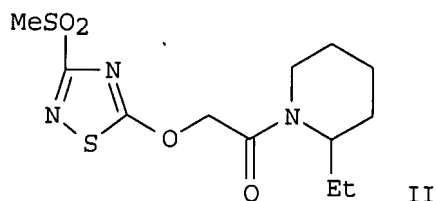
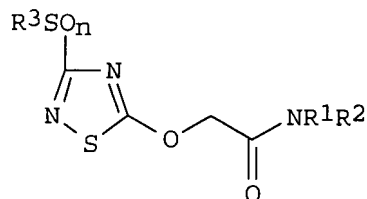
RN 566897-50-5 HCAPLUS
 CN Pyrimidine, 4-[[[3-[[[4-chlorophenyl)methyl]thio]-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:997048 HCAPLUS
 DOCUMENT NUMBER: 124:146173
 TITLE: Preparation of alkylsulfinyl- and -sulfonyl-1,2,4-thiadiazolyloxyacetamides as herbicides
 INVENTOR(S): Foerster, Heinz; Santel, Hans-Joachim; Dollinger, Markus
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 45 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4415338	A1	19951109	DE 1994-4415338	19940502
WO 9529905	A1	19951109	WO 1995-EP1472	19950419
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9524069	A1	19951129	AU 1995-24069	19950419
EP 758326	A1	19970219	EP 1995-917938	19950419
EP 758326	B1	20011031		
R: DE, FR				
CN 1151738	A	19970611	CN 1995-193810	19950419
CN 1073561	B	20011024		
JP 09512281	T2	19971209	JP 1995-527963	19950419
US 5827800	A	19981027	US 1996-732239	19961025
PRIORITY APPLN. INFO.:			DE 1994-4415338	A 19940502
			WO 1995-EP1472	W 19950419
OTHER SOURCE(S):			MARPAT 124:146173	
GI				



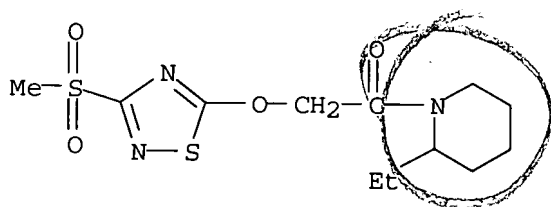
AB Title compds. [I; R1 = H, alk(en)yl, alkynyl, aralkyl; R2 = (cyclo)alk(en)yl, alkoxy, aryl(alkyl), etc.; NR1R2 = heterocyclyl; R3 = alkyl, aryl(alkyl)] were prepared as herbicides (no data). Thus, 3,5-bis(methylsulfonyl)-1,2,4-thiadiazole was etherified by hydroxyacetic acid 2-ethylpiperidide to give title compound II.

IT 173160-91-3P 173160-94-6P 173160-98-0P
 173161-06-3P 173161-08-5P 173161-16-5P
 173161-17-6P 173161-18-7P 173161-20-1P
 173161-23-4P 173161-31-4P 173161-33-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of alkylsulfinyl- and -sulfonyl-1,2,4-thiadiazolyloxyacetamides as herbicides)

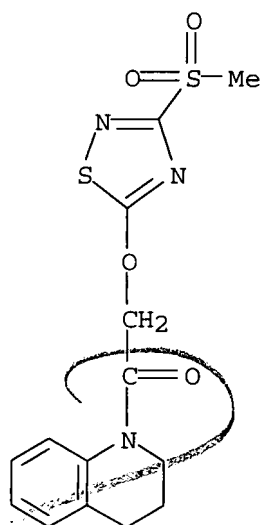
RN 173160-91-3 HCAPLUS

CN Piperidine, 2-ethyl-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



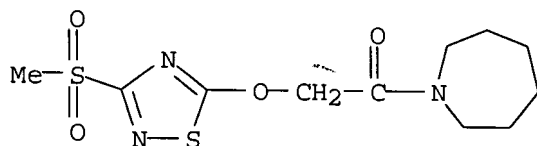
RN 173160-94-6 HCAPLUS

CN Quinoline, 1,2,3,4-tetrahydro-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



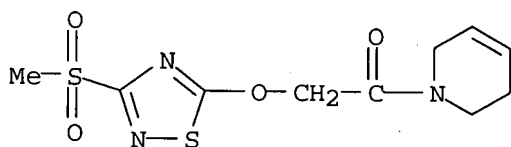
RN 173160-98-0 HCAPLUS

CN 1H-Azepine, hexahydro-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



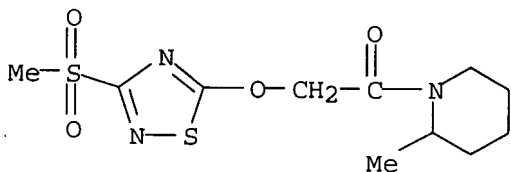
RN 173161-06-3 HCAPLUS

CN Pyridine, 1,2,3,6-tetrahydro-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



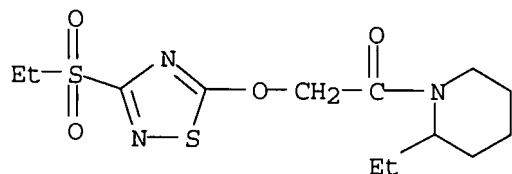
RN 173161-08-5 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



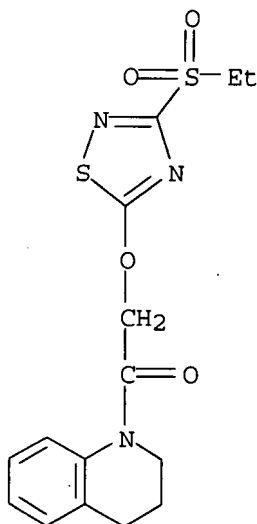
RN 173161-16-5 HCAPLUS

CN Piperidine, 2-ethyl-1-[[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



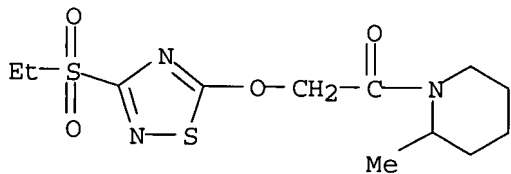
RN 173161-17-6 HCAPLUS

CN Quinoline, 1-[[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



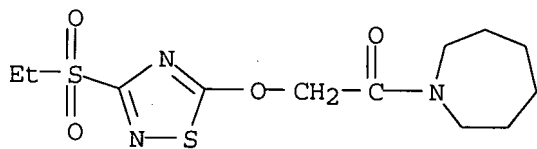
RN 173161-18-7 HCAPLUS

CN Piperidine, 1-[[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-2-methyl- (9CI) (CA INDEX NAME)

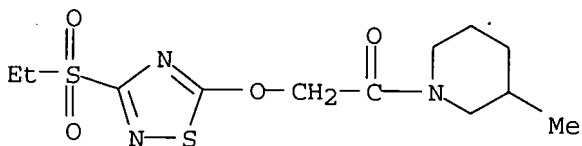


RN 173161-20-1 HCAPLUS

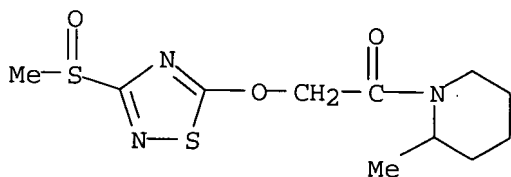
CN 1H-Azepine, 1-[[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]hexahydro- (9CI) (CA INDEX NAME)



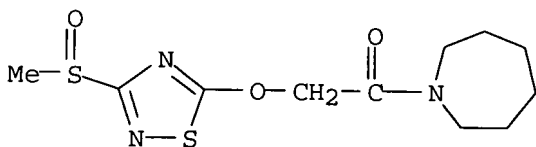
RN 173161-23-4 HCAPLUS
CN Piperidine, 1-[[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-3-methyl- (9CI) (CA INDEX NAME)



RN 173161-31-4 HCAPLUS
CN Piperidine, 2-methyl-1-[[[3-(methylsulfinyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



RN 173161-33-6 HCAPLUS
CN 1H-Azepine, hexahydro-1-[[[3-(methylsulfinyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

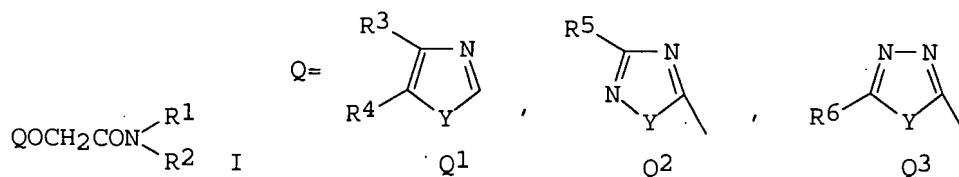


L4 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:156484 HCAPLUS
DOCUMENT NUMBER: 106:156484
TITLE: Preparation of herbicidal azolyloxy-carboxylic acid amides
INVENTOR(S): Foerster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; Schmidt, Robert R.
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: U.S., 37 pp. Cont. of U.S. Ser. No. 132,055, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4645525	A	19870224	US 1983-526518	19830826
DE 3004326	A1	19810813	DE 1980-3004326	19800206
US 4756741	A	19880712	US 1986-819200	19860115
PRIORITY APPLN. INFO.:			DE 1979-2914033	A 19790406
			DE 1980-3004326	A 19800206
			US 1980-132055	A1 19800320
			DE 1979-2914003	A 19790406
			US 1983-526518	A3 19830826

OTHER SOURCE(S): CASREACT 106:156484
GI



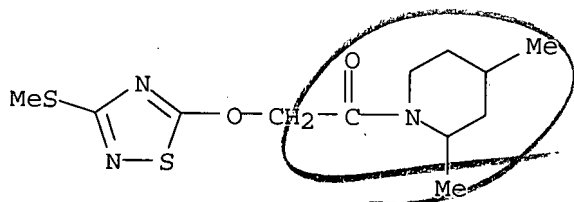
AB The title compds. I [R1 = H, (substituted) alkyl, PhCH2, (substituted) propargyl, allyl, cycloalkyl; R2 = alkyl, alkoxyethyl, allyl, cycloalkyl, (substituted) Ph; optionally R1R2N = (substituted) heterocyclyl; R3, R4, R5, R6 = H, Cl, cyano, alkyl- or alkoxycarbonyl, (substituted) Ph, alkylsulfonyl, (cyano)alkyl, CF3, CCl3, PhCH2, S, PhOCH2; Y = S, O] useful as herbicides, are prepared Treatment of 14.8 g HOCH2CONPhMe in Me2CHOH with 5.6 g KOH and 13.1 g 2,4,5-trichlorothiazole at -15° to 0° gave 81% I (R1 = Ph; R2 = Me; Q = Q1; R3 = R4 = Cl; Y = S), which exhibit an excellent herbicidal activity against Echinochloa crus-galli, and Eleocharis acicularis.

IT 76668-01-4P 76668-25-2P 76668-29-6P
76668-30-9P 76668-82-1P 76668-84-3P
77183-44-9P 77183-45-0P 77183-46-1P
77183-47-2P 77183-48-3P 77183-49-4P
77183-50-7P 77183-53-0P 77183-59-6P
77183-60-9P 77183-67-6P 77183-68-7P
107761-22-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

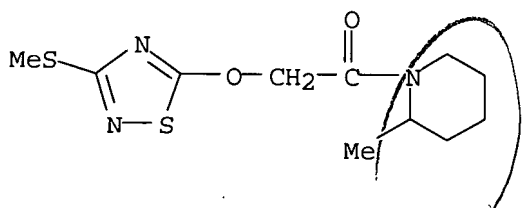
RN 76668-01-4 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



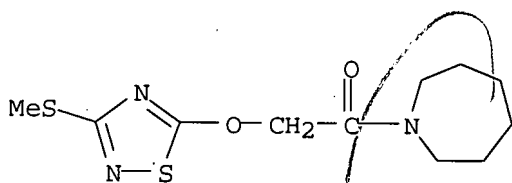
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



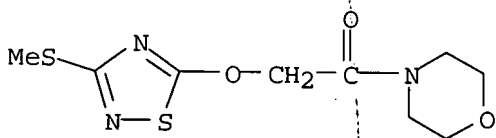
RN 76668-29-6 HCAPLUS

CN 1H-Azepine, hexahydro-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



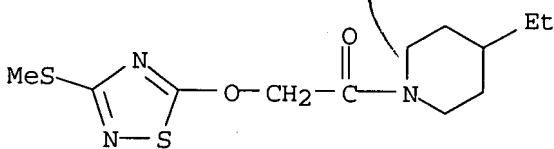
RN 76668-30-9 HCAPLUS

CN Morpholine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



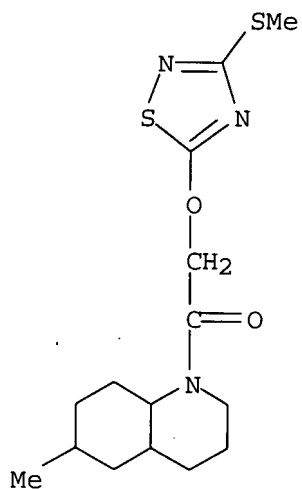
RN 76668-82-1 HCAPLUS

CN Piperidine, 4-ethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



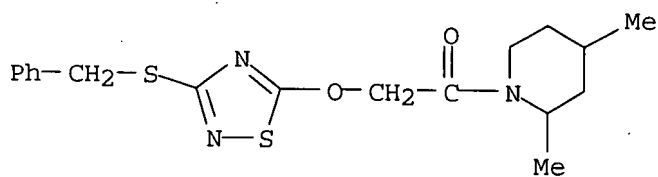
RN 76668-84-3 HCAPLUS

CN Quinoline, decahydro-6-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



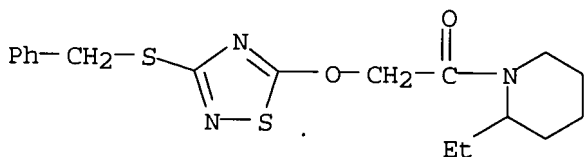
RN 77183-44-9 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



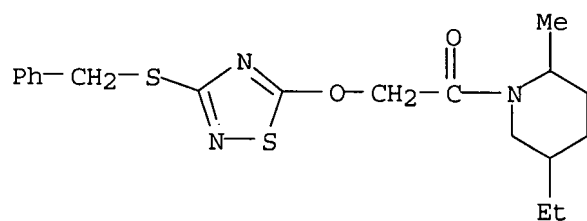
RN 77183-45-0 HCAPLUS

CN Piperidine, 2-ethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



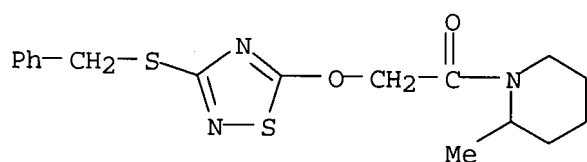
RN 77183-46-1 HCAPLUS

CN Piperidine, 5-ethyl-2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



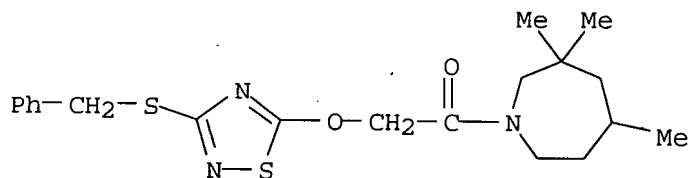
RN 77183-47-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



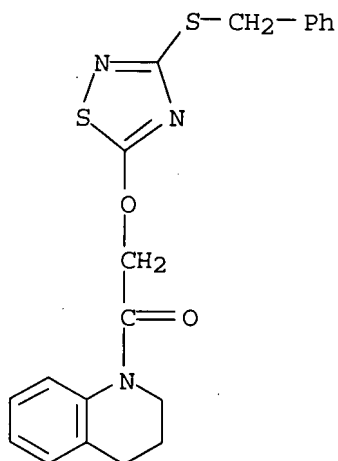
RN 77183-48-3 HCAPLUS

CN 1H-Azepine, hexahydro-3,3,5-trimethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

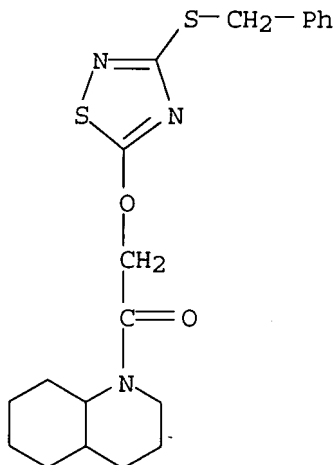


RN 77183-49-4 HCAPLUS

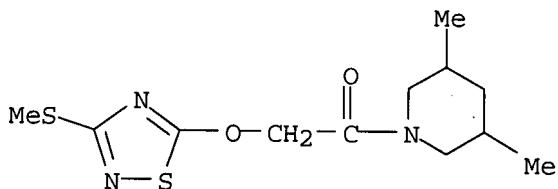
CN Quinoline, 1,2,3,4-tetrahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



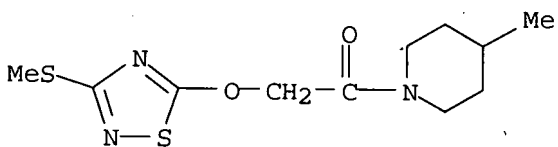
RN 77183-50-7 HCAPLUS
 CN Quinoline, decahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



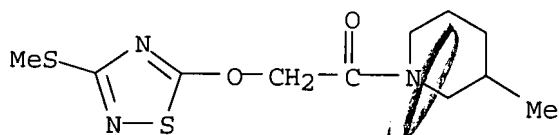
RN 77183-53-0 HCAPLUS
 CN Piperidine, 3,5-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



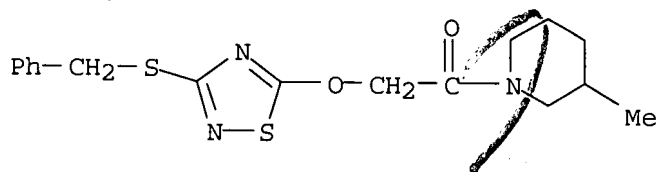
RN 77183-59-6 HCAPLUS
 CN Piperidine, 4-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



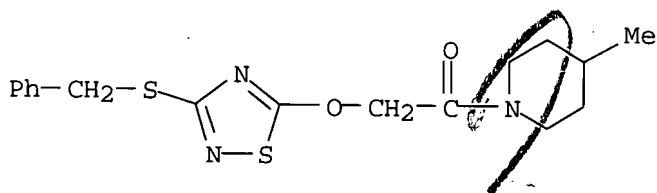
RN 77183-60-9 HCAPLUS
 CN Piperidine, 3-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



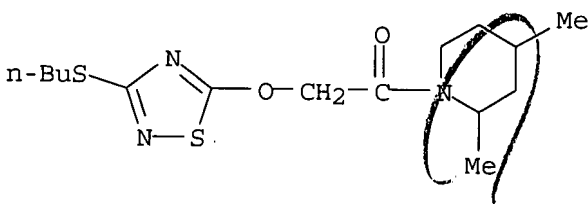
RN 77183-67-6 HCAPLUS
CN Piperidine, 3-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



RN 77183-68-7 HCAPLUS
CN Piperidine, 4-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

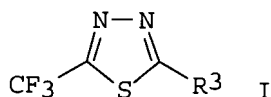


RN 107761-22-8 HCAPLUS
CN Piperidine, 1-[[[3-(butylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:207277 HCAPLUS
DOCUMENT NUMBER: 104:207277
TITLE: (Heteroaryloxy)acetamidines
INVENTOR(S): Schmidt, Thomas; Diehr, Hans Joachim
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3422861	A1	19860102	DE 1984-3422861	19840620
EP 165537	A2	19851227	EP 1985-107108	19850610
EP 165537	A3	19870304		
EP 165537	B1	19900117		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 61017575	A2	19860125	JP 1985-130072	19850617
JP 07014925	B4	19950222		
IL 75533	A1	19900118	IL 1985-75533	19850617
ES 544341	A1	19860201	ES 1985-544341	19850619
US 5101034	A	19920331	US 1991-668796	19910307
PRIORITY APPLN. INFO.:			DE 1984-3422861	A 19840620
			US 1985-741098	B1 19850604
			US 1990-538599	B1 19900614
OTHER SOURCE(S):			CASREACT 104:207277; MARPAT 104:207277	
GI				

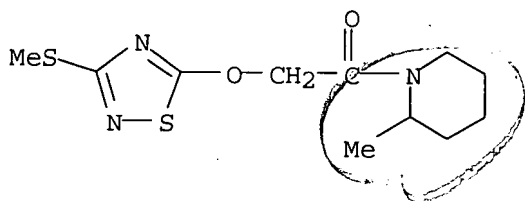


AB Herbicidal (no data) ROCH2CONR1R2 [R = (un)substituted (benzo)heterocyclyl; R1, R2 = H, alkenyl, alkynyl, alkoxy, (un)substituted alkyl, cycloalkyl, cycloalkenyl, aryl; R1R2N = (un)substituted heterocyclyl] were prepared. Thus, H2NNHCS2Me was treated with PCl3 and cyclocondensed with CF3CO2H to give 82.4% 1,3,4-thiadiazole I (R = MeS). This was oxidized with H2O2 to give 85% I (R = MeSO2). The latter was condensed with HOCH2CONMePh in Me2CO containing Et4N+Br-/K2CO3 to give 90.8% I (R = PhNMeCOCH2O).

IT 76668-25-2P 77183-47-2P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

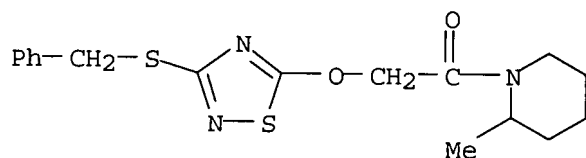
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



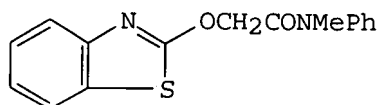
RN 77183-47-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1982:527633 HCAPLUS
 DOCUMENT NUMBER: 97:127633
 TITLE: Substituted hydroxyacetic acid amides
 INVENTOR(S): Schmidt, Thomas
 PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
 SOURCE: Ger. Offen., 34 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3038636	A1	19820527	DE 1980-3038636	19801013
DE 3038636	C2	19890615		
JP 57093969	A2	19820611	JP 1981-162112	19811013
JP 01041633	B4	19890906		
PRIORITY APPLN. INFO.: GI			DE 1980-3038636	A 19801013



I

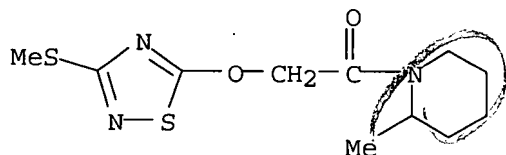
AB R1OCH2CONR3(O)nR2 [R1 = (un)substituted 5-membered O or S heterocycl containing 1-3 addnl. N atoms, phenyltetrazolyl; n = 0, 1; R2, R3 = aliphatic, cycloalkenyl, aralkyl; NR2R3 = unsatd. mono- or bicyclic group optionally containing addnl. heteroatoms] were prepared by reactions of ROCH2CONR3(O)nR2

[R = H, COR4 [R4 = H, (cyclo)alkyl, halo- or alkoxyallyl, aryl] with R1X (X = F, Cl, Br, iodo). Thus, treating 45% aqueous NaOH with a mixture of HOCH2CONMePh and 2-chlorobenzothiazole at 40-60° and stirring 1 h at 50° gave 97% benzothiazolyl ether I.

IT 76668-25-2P 77183-47-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

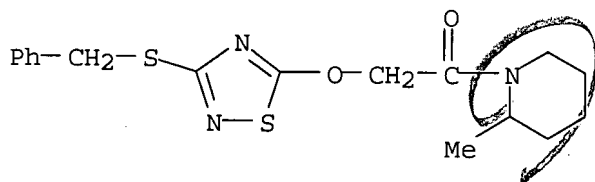
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-
 (9CI) (CA INDEX NAME)



RN 77183-47-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:16080 HCAPLUS

DOCUMENT NUMBER: 96:16080

TITLE: Agent for regulating plant growth and its use

INVENTOR(S): Foerster, Heinz; Hofer, Wolfgang; Maurer, Fritz; Mues, Volker; Eue, Ludwig; Luerksen, Klaus

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 76 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3018075	A1	19811112	DE 1980-3018075	19800510
EP 39811	A2	19811118	EP 1981-103121	19810425
EP 39811	A3	19820120		
R: BE, CH, DE, FR, GB, IT, NL				
DK 8102061	A	19811111	DK 1981-2061	19810508
JP 57004903	A2	19820111	JP 1981-68409	19810508
BR 8102893	A	19820202	BR 1981-2893	19810508
PRIORITY APPLN. INFO.:			DE 1980-3018075	A 19800510

OTHER SOURCE(S): CASREACT 96:16080

AB The amides ROCHR1CONR3(O)nR2 (R = 5-membered heterocyclic radical, eventually substituted; R1 = H or alkyl; n = 0 or 1; R2 and R3 = H, alkyl, alkenyl, cycloalkyl, aryl, etc.) are plant growth regulators. Thus, in greenhouse expts., 0.05% 2-benzoxazolyloxy-N-isopropylacetohydroxamic acid O-(2-ethoxyethyl) ester [79088-32-7] inhibited cotton growth by 70%. The synthesis of the compds. is given.

IT 76668-01-4P 76668-25-2P 77183-44-9P

77183-45-0P 77183-49-4P 77183-50-7P

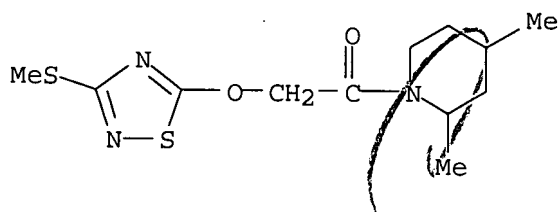
77183-59-6P 80190-66-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and plant growth-regulating activity of)

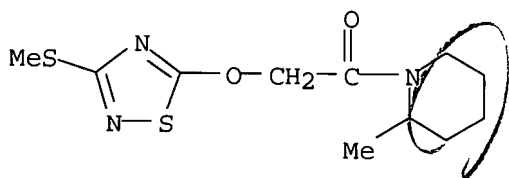
RN 76668-01-4 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



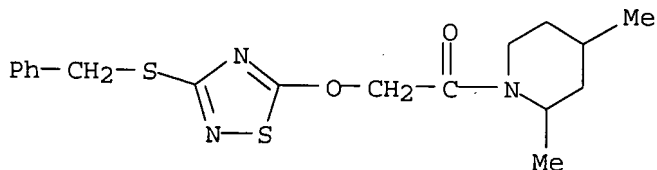
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



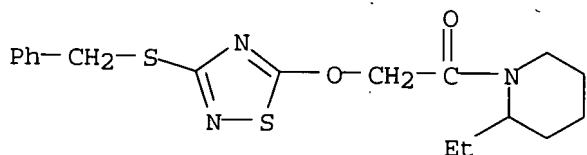
RN 77183-44-9 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



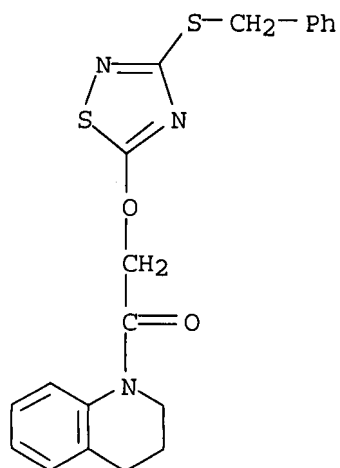
RN 77183-45-0 HCAPLUS

CN Piperidine, 2-ethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



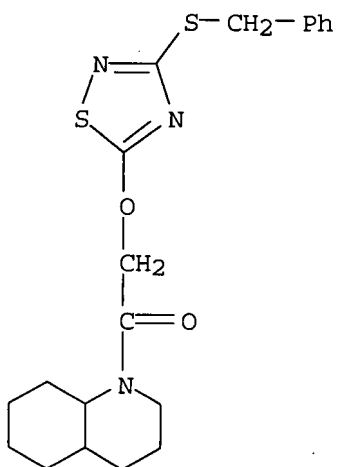
RN 77183-49-4 HCAPLUS

CN Quinoline, 1,2,3,4-tetrahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



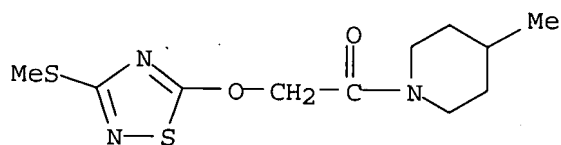
RN 77183-50-7 HCAPLUS

CN Quinoline, decahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



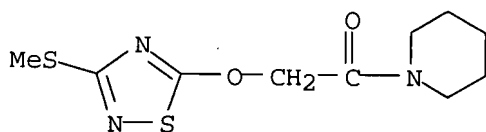
RN 77183-59-6 HCAPLUS

CN Piperidine, 4-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



RN 80190-66-5 HCAPLUS

CN Piperidine, 1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:407285 HCAPLUS

DOCUMENT NUMBER: 95:7285

TITLE: Herbicidal azolyloxycarboxylic amides

INVENTOR(S): Foerster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; Schmidt, Robert Rudolf

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 55 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

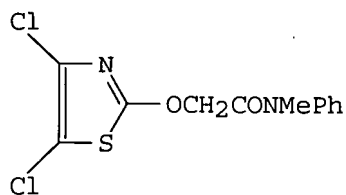
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2914003	A1	19801016	DE 1979-2914003	19790406
EP 18497	A1	19801112	EP 1980-101586	19800326
EP 18497	B1	19820428		
R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
AT 917	E	19820515	AT 1980-101586	19800326
DK 8001435	A	19801007	DK 1980-1435	19800402
DK 164503	B	19920706		
DK 164503	C	19921123		
BR 8002088	A	19801125	BR 1980-2088	19800402
ES 490253	A1	19810716	ES 1980-490253	19800402
AU 8057151	A1	19801009	AU 1980-57151	19800403
AU 540477	B2	19841122		
ZA 8002020	A	19810729	ZA 1980-2020	19800403
DD 149992	C	19810812	DD 1980-220209	19800403
CA 1151177	A1	19830802	CA 1980-349179	19800403
HU 26091	O	19830928	HU 1980-804	19800403
HU 185881	B	19850428		
IL 59755	A1	19831230	IL 1980-59755	19800403
JP 01042949	B4	19890918	JP 1980-45538	19800407
US 4756741	A	19880712	US 1986-819200	19860115
PRIORITY APPLN. INFO.:				
			DE 1979-2914003	A 19790406
			DE 1980-3004326	A 19800206
			US 1980-132055	A1 19800320
			EP 1980-101586	A 19800326
			US 1983-526518	A3 19830826

OTHER SOURCE(S): CASREACT 95:7285

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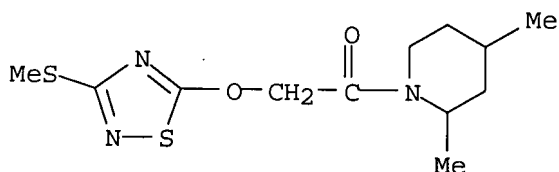


AB The title carboxamides ROCHR1CONR2R3 [R = 5-membered heteroaryl containing 1 O or 1 S atom and addnl. 1-3 N atoms, optionally substituted by halo, NO₂, cyano, NH₂, (di)alkylamino, alkylcarbonylamino, alkylcarbonyl, CO₂H, alkoxycarbonyl, CONH₂, (di) alkylaminocarbonyl, by halo-, nitro-, or alkyl-substituted arylaminocarbonyl, by halo-, nitro-, cyano-, alkyl-, or alkoxy-substituted aryl, by halo-substituted aralkyl, by halo-substituted alkoxy, alkenyloxy, alkynyloxy, alkoxycarbonylalkoxy, aralkoxy, or aryloxy, by halo-substituted alkylthio and S-oxides, alkenylthio, alkynylthio, alkoxycarbonylalkylthio, aralkylthio, or arylthio, by halo-substituted alkyl, alkenyl, or alkynyl, alkoxyalkyl, aralkoxyalkyl, aryloxyalkyl, alkylthioalkyl and S-oxides, arylthioalkyl and S-oxides, carboxyalkyl, alkoxycarbonylalkyl, optionally substituted aminocarbonylalkyl, cyanoalkyl, or cycloalkyl; R₁ = H, alkyl; R₂, R₃ independently = H, optionally substituted aliphatic, aralkyl, cycloalkyl, aryl, N-containing heterocyclcyl; NR₂R₃ = optionally substituted, partially unsatd., or benzannulated mono- or bicyclic moiety], useful as pre- or post-emergence herbicides (no data), were prepared Thus, treating ClCH₂CONMePh with NaOAc in PhMe 4 h at 115-20° gave 99% AcOCH₂CONMePh which was saponified with NaOH in refluxing MeOH 4 h to give 98% HOCH₂CONMePh. Etherifying this in Me₂CHOH with powdered KOH, then 2,4,5-trichlorothiazole at -15 to -10° gave 81% ether-anilide I.

IT 76668-01-4P 76668-25-2P 76668-29-6P
76668-30-9P 76668-82-1P 76668-84-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

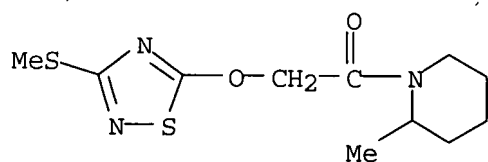
RN 76668-01-4 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



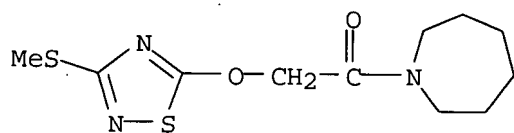
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



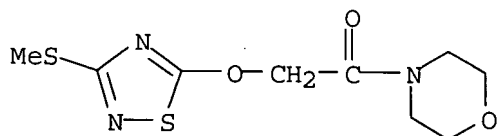
RN 76668-29-6 HCAPLUS

CN 1H-Azepine, hexahydro-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



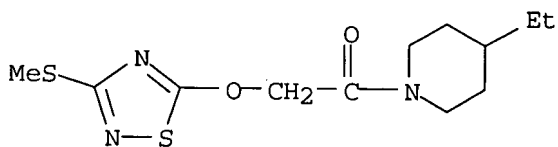
RN 76668-30-9 HCAPLUS

CN Morpholine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



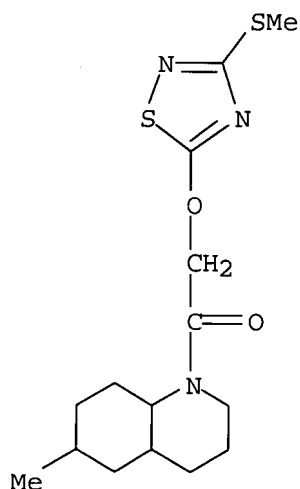
RN 76668-82-1 HCAPLUS

CN Piperidine, 4-ethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



RN 76668-84-3 HCAPLUS

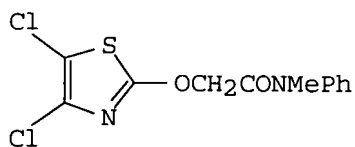
CN Quinoline, decahydro-6-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:175096 HCAPLUS
 DOCUMENT NUMBER: 94:175096
 TITLE: Azolyloxycarboxamides and their use as herbicides
 INVENTOR(S): Foerster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; Schmidt, Robert Rudolf
 PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
 SOURCE: Eur. Pat. Appl., 81 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 18497	A1	19801112	EP 1980-101586	19800326
EP 18497	B1	19820428		
R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
DE 2914003	A1	19801016	DE 1979-2914003	19790406
DE 3004326	A1	19810813	DE 1980-3004326	19800206
AT 917	E	19820515	AT 1980-101586	19800326
PRIORITY APPLN. INFO.:			DE 1979-2914003	A 19790406
			DE 1980-3004326	A 19800206
			EP 1980-101586	A 19800326

GI



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AB ROCHR1CONR2R3 [R = (un)substituted 5-membered heterocycle with 1 O or S and 1-3 N atoms; R1 = H, alkyl; R2, R3 = H, (cyclo)aliphatic, aryl,

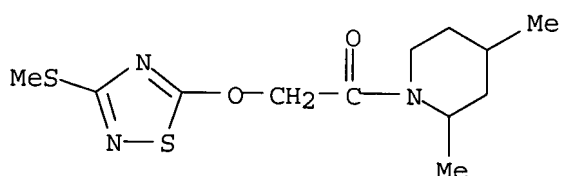
heterocyclcyl) were prepared as herbicides (no data). Thus, treating HOCH₂CONMePh with 2,4,5-trichlorothiazole in KOH-Me₂CHOH gave 81% I.

IT 76668-01-4P 76668-25-2P 76668-29-6P
76668-30-9P 76668-82-1P 76668-84-3P
77183-44-9P 77183-45-0P 77183-46-1P
77183-47-2P 77183-48-3P 77183-49-4P
77183-50-7P 77183-53-0P 77183-59-6P
77183-60-9P 77183-64-3P 77183-67-6P
77183-68-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

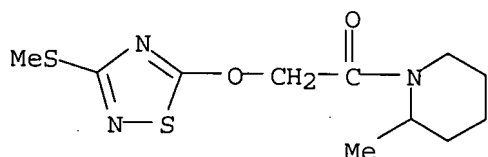
RN 76668-01-4 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



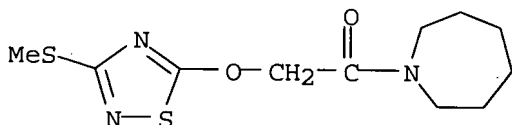
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



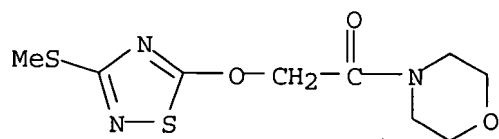
RN 76668-29-6 HCAPLUS

CN 1H-Azepine, hexahydro-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



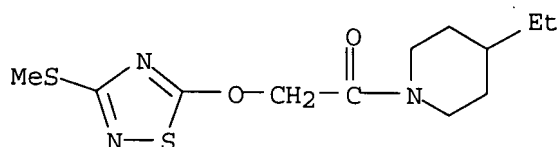
RN 76668-30-9 HCAPLUS

CN Morpholine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



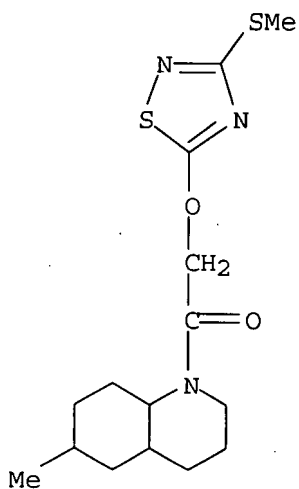
RN 76668-82-1 HCAPLUS

CN Piperidine, 4-ethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



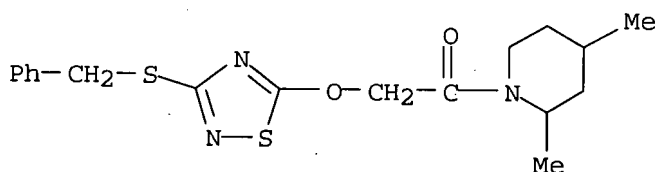
RN 76668-84-3 HCAPLUS

CN Quinoline, decahydro-6-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



RN 77183-44-9 HCAPLUS

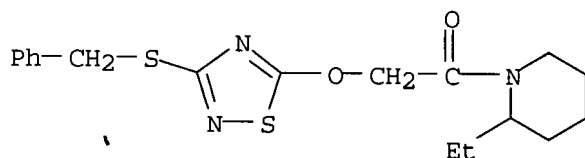
CN Piperidine, 2,4-dimethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



RN 77183-45-0 HCAPLUS

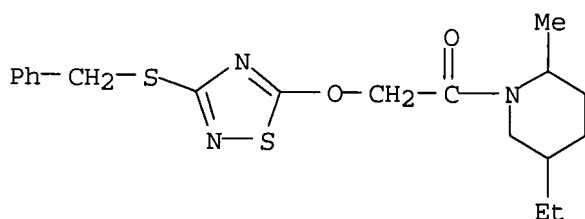
CN Piperidine, 2-ethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-

yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



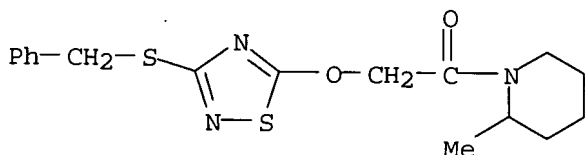
RN 77183-46-1 HCAPLUS

CN Piperidine, 5-ethyl-2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



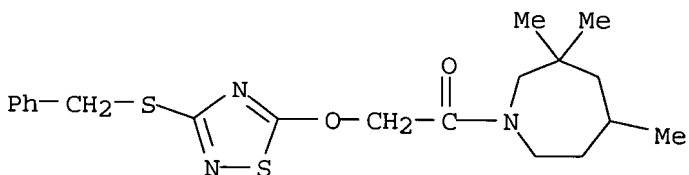
RN 77183-47-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



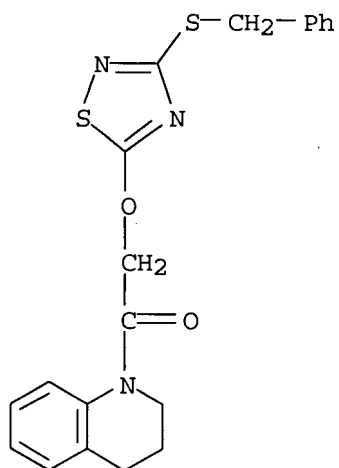
RN 77183-48-3 HCAPLUS

CN 1H-Azepine, hexahydro-3,3,5-trimethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



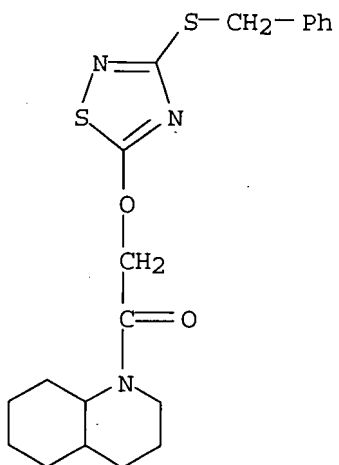
RN 77183-49-4 HCAPLUS

CN Quinoline, 1,2,3,4-tetrahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



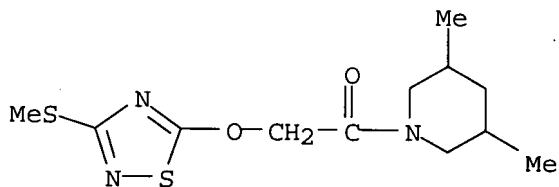
RN 77183-50-7 HCAPLUS

CN Quinoline, decahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



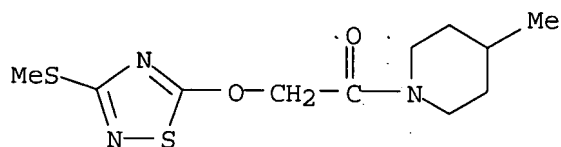
RN 77183-53-0 HCAPLUS

CN Piperidine, 3,5-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

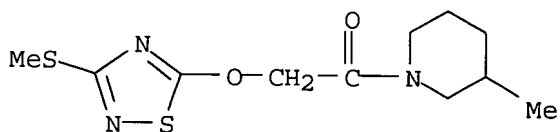


RN 77183-59-6 HCAPLUS

CN Piperidine, 4-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

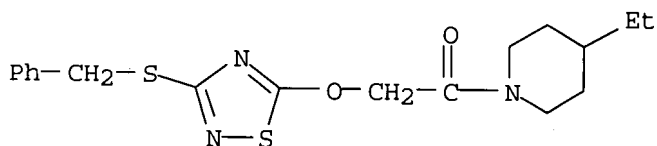


RN 77183-60-9 HCAPLUS

CN Piperidine, 3-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-
(9CI) (CA INDEX NAME)

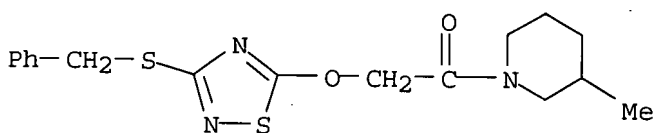
RN 77183-64-3 HCAPLUS

CN Piperidine, 4-ethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



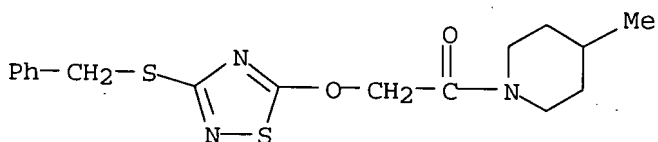
RN 77183-67-6 HCAPLUS

CN Piperidine, 3-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



RN 77183-68-7 HCAPLUS

CN Piperidine, 4-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



11/05/2006 10528398d.trn

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
66.23	233.38

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-6.75	-6.75

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FILE 'REGISTRY' ENTERED AT 15:37:06 ON 05 NOV 2006

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STRUCTURE FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4

DICTIONARY FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

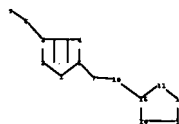
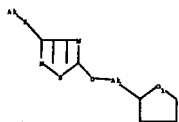
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10528398e.str



chain nodes :

11/05/2006 10528398d.trn

6 7 9 10
ring nodes :
1 2 3 4 5 11 12 13 14 15
chain bonds :
3-6 5-7 6-9 7-10 10-15
ring bonds :
1-2 1-5 2-3 3-4 4-5 11-12 11-15 12-13 13-14 14-15
exact/norm bonds :
1-2 1-5 2-3 3-4 3-6 4-5 5-7 6-9 7-10 10-15 11-12 11-15 12-13 13-14
14-15
isolated ring systems :
containing 1 : 11 :

G1:O,S

Match level :

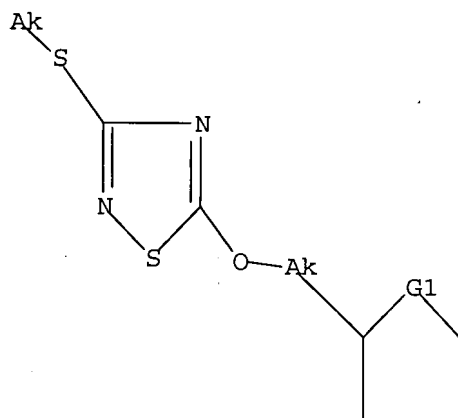
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 15:37:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

11/05/2006 10528398d.trn

PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 sss full

FULL SEARCH INITIATED 15:37:30 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 33 TO ITERATE

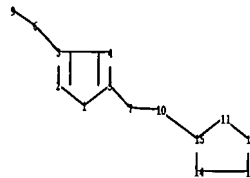
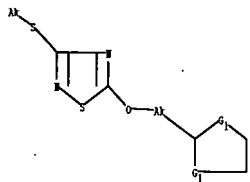
100.0% PROCESSED 33 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L7 0 SEA SSS FUL L5

=>

Uploading C:\Program Files\Stnexp\Queries\10528398f.str



chain nodes :

6 7 9 10

ring nodes :

1 2 3 4 5 11 12 13 14 15

chain bonds :

3-6 5-7 6-9 7-10 10-15

ring bonds :

1-2 1-5 2-3 3-4 4-5 11-12 11-15 12-13 13-14 14-15

exact/norm bonds :

1-2 1-5 2-3 3-4 3-6 4-5 5-7 6-9 7-10 10-15 11-12 11-15 12-13 13-14 14-15

isolated ring systems :

containing 1 : 11 :

G1:O,S

Match level :

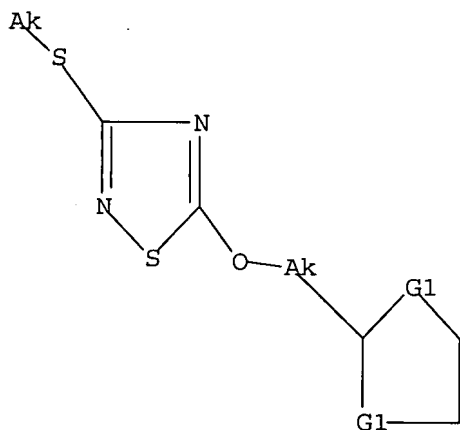
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 18

SAMPLE SEARCH INITIATED 15:38:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L9 0 SEA SSS SAM L8

=> s 18 sss full

FULL SEARCH INITIATED 15:38:38 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 33 TO ITERATE

100.0% PROCESSED 33 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

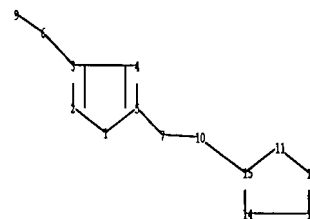
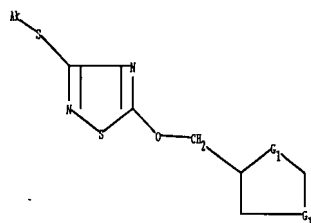
L10 0 SEA SSS FUL L8

=>

Uploading C:\Program Files\Stnexp\Queries\10528398g.str

11/05/2006

10528398d.trn



chain nodes :

6 7 9 10

ring nodes :

1 2 3 4 5 11 12 13 14 15

chain bonds :

3-6 5-7 6-9 7-10 10-15

ring bonds :

1-2 1-5 2-3 3-4 4-5 11-12 11-15 12-13 13-14 14-15

exact/norm bonds :

1-2 1-5 2-3 3-4 3-6 4-5 5-7 6-9 7-10 10-15 11-12 11-15 12-13 13-14 14-15

isolated ring systems :

containing 1 : 11 :

G1:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 9:CLASS 10:CLASS

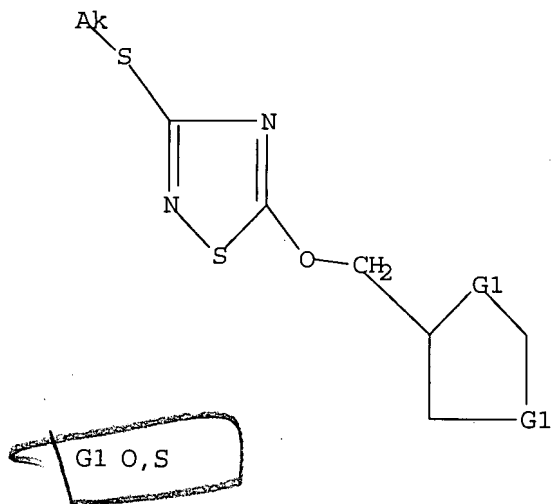
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom

L11 STRUCTURE UPLOADED

=> d l11

L11 HAS NO ANSWERS

L11 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l11

SAMPLE SEARCH INITIATED 15:41:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 1 TO 80

L12 1 SEA SSS SAM L11

=> s l11 sss full

FULL SEARCH INITIATED 15:41:45 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 19 TO ITERATE

100.0% PROCESSED 19 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

L13 19 SEA SSS FUL L11

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
503.02	736.40

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
0.00	-6.75

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FILE 'HCAPLUS' ENTERED AT 15:41:50 ON 05 NOV 2006

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FILE COVERS 1907 - 5 Nov 2006 VOL 145 ISS 20
FILE LAST UPDATED: 3 Nov 2006 (20061103/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13

L14 1 L13

=> d l14 ibib abs hitstr tot

L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:333715 HCAPLUS

DOCUMENT NUMBER: 140:339331

TITLE: Preparation of thiadiazole compounds as arthropodicides

INVENTOR(S): Ihara, Hideki

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PET Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

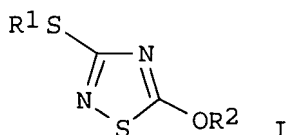
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004033452	A1	20040422	WO 2003-JP12831	20031007
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2004131438	A2	20040430	JP 2002-298489	20021011
AU 2003271112	A1	20040504	AU 2003-271112	20031007
EP 1550661	A1	20050706	EP 2003-751359	20031007
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003014616	A	20050726	BR 2003-14616	20031007
CN 1703413	A	20051130	CN 2003-80101245	20031007

US 2006014962 A1 20060119 US 2005-528398 20050317
 PRIORITY APPLN. INFO.: JP 2002-298489 A 20021011
 WO 2003-JP12831 W 20031007
 OTHER SOURCE(S): MARPAT 140:339331
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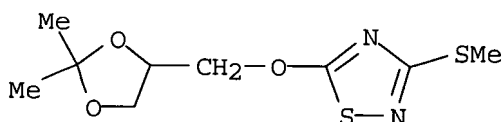


AB Title compds. I (R1 = alkyl, alkenyl, alkynyl, etc.; R2 = heterocyclalkyl) are prepared Thus, reaction of 5-chloro-3-(4-methylbenzyl)thio-1,2,4-thiadiazole with 2,2-dimethyl-1,3-dioxolane-4-methanol in DMF in the presence of NaH at room temperature for 4 h gave 5-(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy-3-(4-methylbenzyl)thio-1,2,4-thiadiazole (II). II showed arthropodicidal activity against Aphis gossypii at 500 ppm.

IT 680220-80-8P 680220-90-0P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of thiadiazole compds. as arthropodocides)

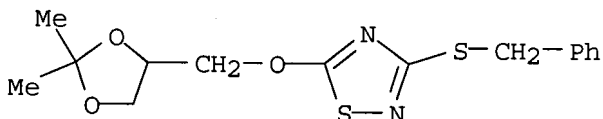
RN 680220-80-8 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(methylthio)- (9CI) (CA INDEX NAME)



RN 680220-90-0 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)

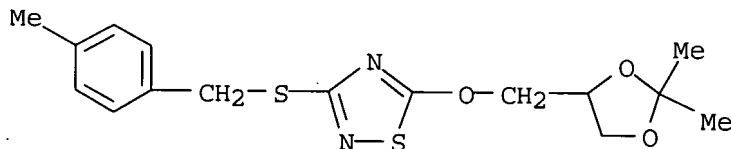


IT 680220-76-2P 680220-78-4P 680220-82-0P
 680220-84-2P 680220-86-4P 680220-88-6P
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 680221-09-4P 680221-11-8P 680221-13-0P
 680221-15-2P 680221-17-4P 680221-19-6P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiadiazole compds. as arthropodicides)

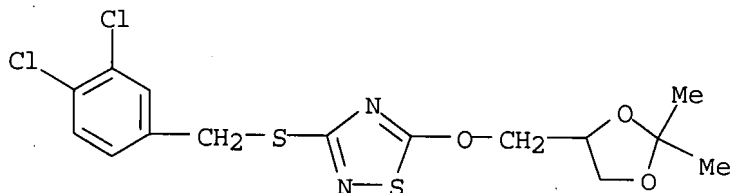
RN 680220-76-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[4-methylphenyl)methyl]thio]- (9CI) (CA INDEX NAME)



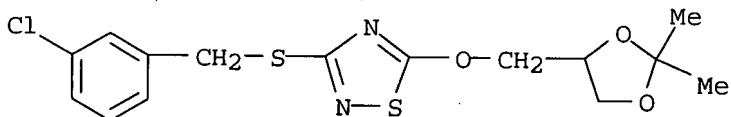
RN 680220-78-4 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[3,4-dichlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



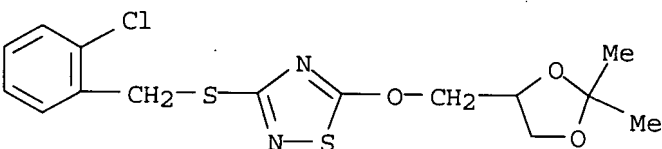
RN 680220-82-0 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[3-chlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



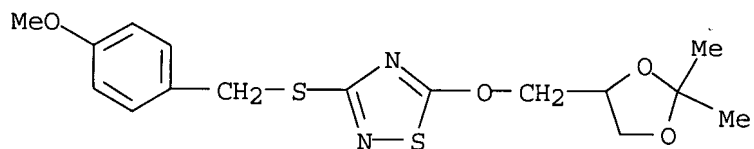
RN 680220-84-2 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[2-chlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



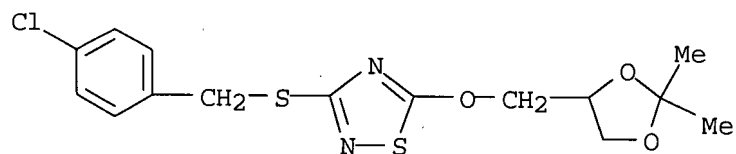
RN 680220-86-4 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[4-methoxyphenyl)methyl]thio]- (9CI) (CA INDEX NAME)



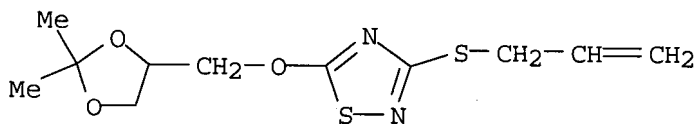
RN 680220-88-6 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[4-chlorophenyl]methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy] - (9CI) (CA INDEX NAME)



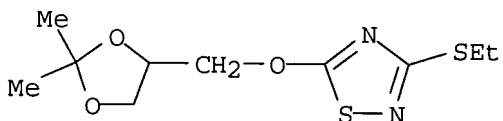
RN 680220-92-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(2-propenylthio) - (9CI) (CA INDEX NAME)



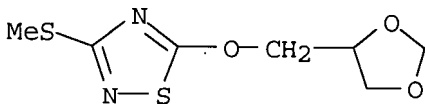
RN 680220-94-4 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(ethylthio) - (9CI) (CA INDEX NAME)



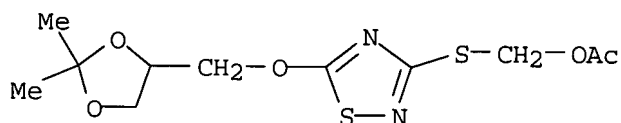
RN 680221-03-8 HCAPLUS

CN 1,2,4-Thiadiazole, 5-(1,3-dioxolan-4-ylmethoxy)-3-(methylthio) - (9CI) (CA INDEX NAME)



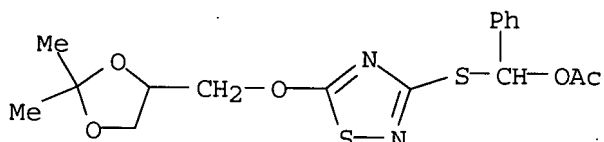
RN 680221-09-4 HCAPLUS

CN Methanol, [[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



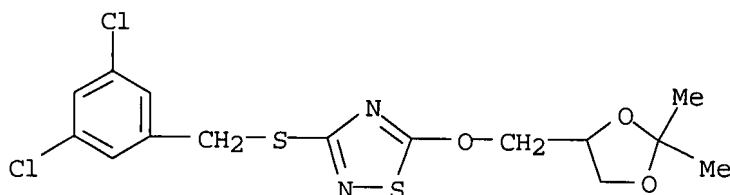
RN 680221-11-8 HCAPLUS

CN Benzenemethanol, α -[[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



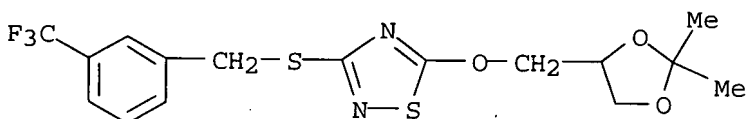
RN 680221-13-0 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[[(3,5-dichlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



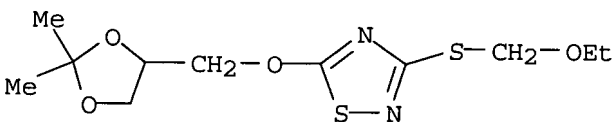
RN 680221-15-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[[3-(trifluoromethyl)phenyl)methyl]thio]- (9CI) (CA INDEX NAME)



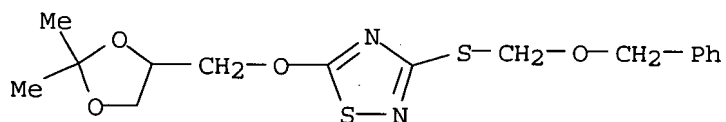
RN 680221-17-4 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[ethoxymethyl]thio]- (9CI) (CA INDEX NAME)



RN 680221-19-6 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[[phenylmethoxy)methyl]thio]- (9CI) (CA INDEX NAME)



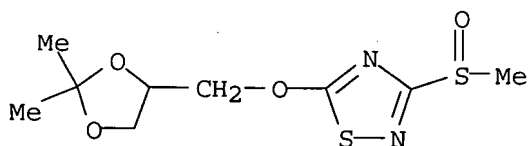
IT 680221-22-1P 680221-23-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thiadiazole compds. as arthropodicides)

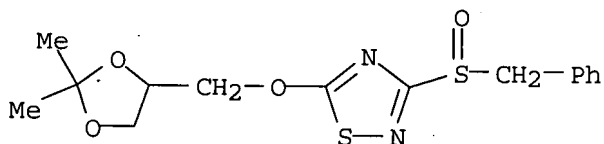
RN 680221-22-1 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(methylsulfinyl)- (9CI) (CA INDEX NAME)



RN 680221-23-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[(phenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

14

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.64	744.04

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.75	-7.50

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 15:42:28 ON 05 NOV 2006

11/05/2006 10528398.trn

WT

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 4 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 5 AUG 30 CA(SM)/Cplus(SM) Austrian patent law changes
NEWS 6 SEP 11 CA/Cplus enhanced with more pre-1907 records
NEWS 7 SEP 21 CA/Cplus fields enhanced with simultaneous left and right
truncation
NEWS 8 SEP 25 CA(SM)/Cplus(SM) display of CA Lexicon enhanced
NEWS 9 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme
NEWS 12 OCT 19 LOGOFF HOLD duration extended to 120 minutes
NEWS 13 OCT 19 E-mail format enhanced
NEWS 14 OCT 23 Option to turn off MARPAT highlighting enhancements available
NEWS 15 OCT 23 CAS Registry Number crossover limit increased to 300,000 in
multiple databases
NEWS 16 OCT 23 The Derwent World Patents Index suite of databases on STN
has been enhanced and reloaded
NEWS 17 OCT 30 CHEMLIST enhanced with new search and display field
NEWS 18 NOV 03 JAPIO enhanced with IPC 8 features and functionality

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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11/05/2006 10528398.trn

FILE 'HOME' ENTERED AT 08:18:50 ON 05 NOV 2006

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 08:19:03 ON 05 NOV 2006

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STRUCTURE FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4

DICTIONARY FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

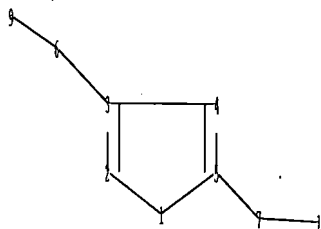
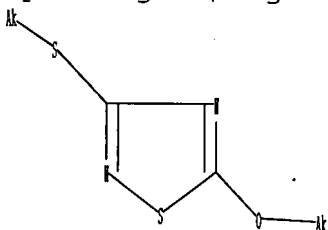
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10528398.str



chain nodes :

6 7 9 10

ring nodes :

10528398.trn

Page 2

08:26

11/05/2006 10528398.trn

1 2 3 4 5
chain bonds :
3-6 5-7 6-9 7-10
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 2-3 3-4 3-6 4-5 5-7 6-9 7-10
exact bonds :
1-5
isolated ring systems :
containing 1 :

Match level :

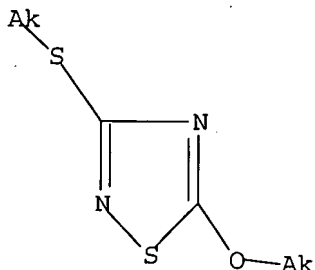
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 9:CLASS 10:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 08:19:15 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 9 TO 360

PROJECTED ANSWERS: 7 TO 298

L2 7 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 08:19:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 244 TO ITERATE

100.0% PROCESSED 244 ITERATIONS

SEARCH TIME: 00.00.01

175 ANSWERS

11/05/2006 10528398.trn

L3 175 SEA SSS FUL L1

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
166.94	167.15

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 08:19:27 ON 05 NOV 2006
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FILE COVERS 1907 - 5 Nov 2006 VOL 145 ISS 20
FILE LAST UPDATED: 3 Nov 2006 (20061103/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 30 L3

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
12.65	179.80

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 08:22:18 ON 05 NOV 2006
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STRUCTURE FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4
DICTIONARY FILE UPDATES: 3 NOV 2006 HIGHEST RN 912441-38-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and

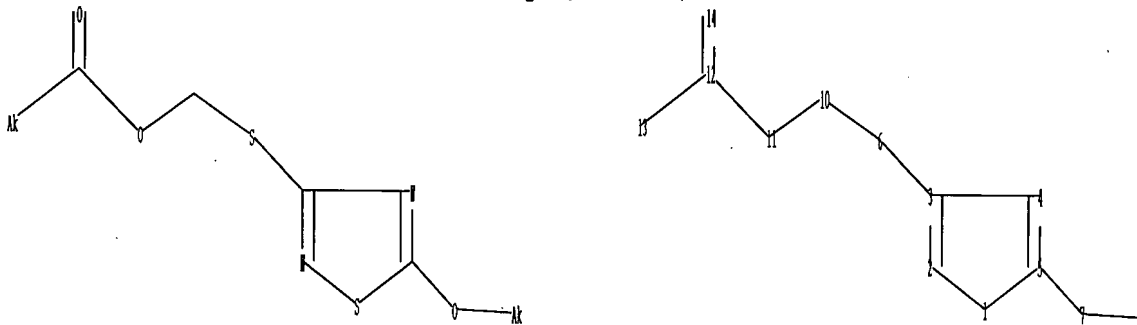
11/05/2006 10528398.trn

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\11528398.str



chain nodes :

6 7 9 10 11 12 13 14

ring nodes :

1 2 3 4 5

chain bonds :

3-6 5-7 6-10 7-9 10-11 11-12 12-13 12-14

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 2-3 3-4 3-6 4-5 5-7 6-10 7-9 10-11 11-12 12-13 12-14

exact bonds :

1-5

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS

L5 STRUCTURE UPLOADED

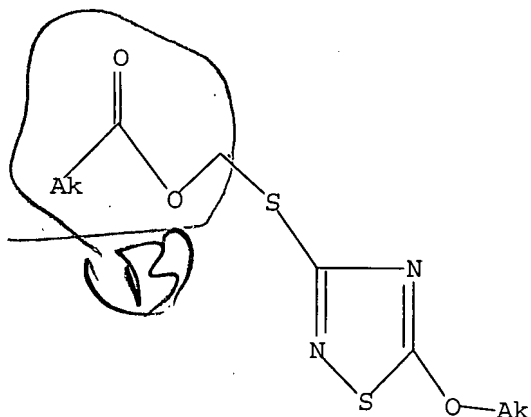
=> d 15

L5 HAS NO ANSWERS

L5 STR

11/05/2006

10528398.trn



Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 08:22:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED

0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L6

0 SEA SSS SAM L5

=> s 15 sss full

FULL SEARCH INITIATED 08:22:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 18 TO ITERATE

100.0% PROCESSED

18 ITERATIONS

SEARCH TIME: 00.00.01

3 ANSWERS

L7

3 SEA SSS FUL L5

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

166.94

346.74

FILE 'HCAPLUS' ENTERED AT 08:22:43 ON 05 NOV 2006

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FILE LAST UPDATED: 3 Nov 2006 (20061103/ED)

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=> s l7

L8 2 L7

=> d his

(FILE 'HOME' ENTERED AT 08:18:50 ON 05 NOV 2006)

FILE 'REGISTRY' ENTERED AT 08:19:03 ON 05 NOV 2006

L1 STRUCTURE UPLOADED

L2 7 S L1

L3 175 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 08:19:27 ON 05 NOV 2006

L4 30 S L3

FILE 'REGISTRY' ENTERED AT 08:22:18 ON 05 NOV 2006

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 3 S L5 SSS FULL

FILE 'HCAPLUS' ENTERED AT 08:22:43 ON 05 NOV 2006

L8 2 S L7

=> s l4 and pests

9944 PESTS

L9 0 L4 AND PESTS

=> s l4 and pest

13226 PEST

9944 PESTS

20231 PEST

(PEST OR PESTS)

L10 0 L4 AND PEST

=> s l4 and arthropod

3340 ARTHROPOD

3082 ARTHROPODS

5120 ARTHROPOD

(ARTHROPOD OR ARTHROPODS)

L11 1 L4 AND ARTHROPOD

=> s l4 and p/dt

5492435 P/DT

L12 28 L4 AND P/DT

=> s l12 and us/pc

11/05/2006 10528398.trn

1606219 US/PC
L13 11 L12 AND US/PC

=> d his

(FILE 'HOME' ENTERED AT 08:18:50 ON 05 NOV 2006)

FILE 'REGISTRY' ENTERED AT 08:19:03 ON 05 NOV 2006

L1 STRUCTURE UPLOADED
L2 7 S L1
L3 175 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 08:19:27 ON 05 NOV 2006

L4 30 S L3

FILE 'REGISTRY' ENTERED AT 08:22:18 ON 05 NOV 2006

L5 STRUCTURE UPLOADED
L6 0 S L5
L7 3 S L5 SSS FULL

FILE 'HCAPLUS' ENTERED AT 08:22:43 ON 05 NOV 2006

L8 2 S L7
L9 0 S L4 AND PESTS
L10 0 S L4 AND PEST
L11 1 S L4 AND ARTHROPOD
L12 28 S L4 AND P/DT
L13 11 S L12 AND US/PC

=> d 18 ibib abs hitstr tot

L8 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:333715 HCAPLUS

DOCUMENT NUMBER: 140:339331

TITLE: Preparation of thiadiazole compounds as
arthropodocides

INVENTOR(S): Ihara, Hideki

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

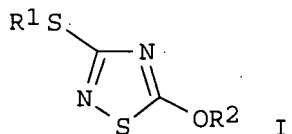
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

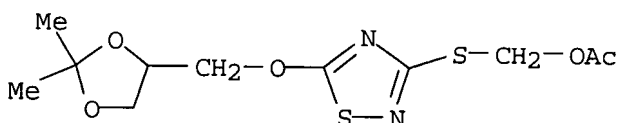
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004033452	A1	20040422	WO 2003-JP12831	20031007
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2004131438	A2	20040430	JP 2002-298489	20021011
AU 2003271112	A1	20040504	AU 2003-271112	20031007

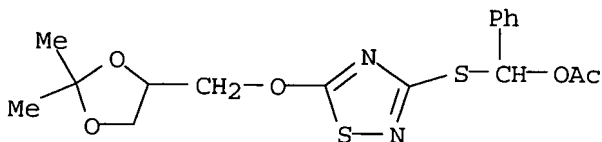
EP 1550661 A1 20050706 EP 2003-751359 20031007
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 BR 2003014616 A 20050726 BR 2003-14616 20031007
 CN 1703413 A 20051130 CN 2003-80101245 20031007
 US 2006014962 A1 20060119 US 2005-528398 20050317
 PRIORITY APPLN. INFO.: JP 2002-298489 A 20021011
 WO 2003-JP12831 W 20031007
 OTHER SOURCE(S): MARPAT 140:339331
 GI



AB Title compds. I (R1 = alkyl, alkenyl, alkynyl, etc.; R2 = heterocyclalkyl) are prepared Thus, reaction of 5-chloro-3-(4-methylbenzyl)thio-1,2,4-thiadiazole with 2,2-dimethyl-1,3-dioxolane-4-methanol in DMF in the presence of NaH at room temperature for 4 h gave 5-(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy-3-(4-methylbenzyl)thio-1,2,4-thiadiazole (II). II showed arthropodicidal activity against Aphis gossypii at 500 ppm.
 IT 680221-09-4P 680221-11-8P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of thiadiazole compds. as arthropodocides)
 RN 680221-09-4 HCAPLUS
 CN Methanol, [[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



RN 680221-11-8 HCAPLUS
 CN Benzenemethanol, α-[[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



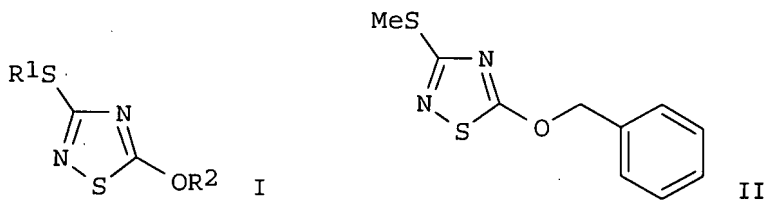
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

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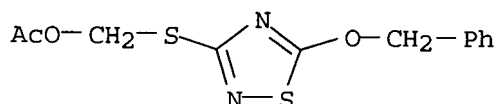
ACCESSION NUMBER: 2003:570972 HCAPLUS
DOCUMENT NUMBER: 139:133570
TITLE: Preparation of 5-alkyloxy-3-alkylthio-1,2,4-thiadiazole derivatives having control activities against injurious arthropods
INVENTOR(S): Ihara, Hideki; Sakamoto, Noriyasu; Tomioka, Hiroki
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059897	A1	20030724	WO 2003-JP237	20030115
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003203224	A1	20030730	AU 2003-203224	20030115
JP 2003277372	A2	20031002	JP 2003-6746	20030115
EP 1475374	A1	20041110	EP 2003-701718	20030115
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CN 1617863	A	20050518	CN 2003-802385	20030115
US 2005215578	A1	20050929	US 2004-498651	20040610
PRIORITY APPLN. INFO.:			JP 2002-8356	A 20020117
			WO 2003-JP237	W 20030115
OTHER SOURCE(S):	MARPAT 139:133570			
GI				



AB The title thiadiazole compds. with general formula of I, which have excellent control activities against injurious arthropods, [wherein R1 = Me, alkenyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkoxyalkyl, alkylthioalkoxyalkyl, (un)substituted PhO-alkyl, Ph-alkoxyalkyl, or acyloxyalkyl; R2 = (un)substituted Ph-alkyl, Py-alkyl, or pyrimidylalkyl] are prepared. For example, 5-chloro-3-methylthio-1,2,4-thiadiazole was reacted with PhCH2OH in DMF in the presence of NaH to give 5-benzyloxy-3-methylthio-1,2,4-thiadiazole (II). I at concentration of 500 ppm

killed more than 85% of aphid gossypii on cucumber seedlings in 6 days.
 IT 566897-53-8P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (herbicide; preparation of alkyloxy(alkylthio)thiadiazole derivs. having control activities against injurious arthropods)
 RN 566897-53-8 HCAPLUS
 CN Methanol, [[5-(phenylmethoxy)-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on SPN
 ACCESSION NUMBER: 2003:570972 HCAPLUS
 DOCUMENT NUMBER: 139:133570
 TITLE: Preparation of 5-alkyloxy-3-alkylthio-1,2,4-thiadiazole derivatives having control activities against injurious arthropods
 INVENTOR(S): Ihara, Hideki; Sakamoto, Noriyasu; Tomioka, Hiroki
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059897	A1	20030724	WO 2003-JP237	20030115
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
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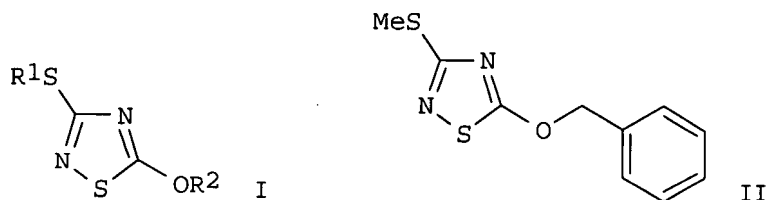
US 2005215578
PRIORITY APPLN. INFO.:

A1 20050929
MARPAT 139:133570

US 2004-498651
JP 2002-8356
WO 2003-JP237

20040610
A 20020117
W 20030115

OTHER SOURCE(S):
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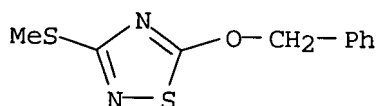
AB The title thiadiazole compds. with general formula of I, which have excellent control activities against injurious arthropods, [wherein R1 = Me, alkenyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkoxyalkyl, alkylthioalkoxyalkyl, (un)substituted PhO-alkyl, Ph-alkoxyalkyl, or acyloxyalkyl; R2 = (un)substituted Ph-alkyl, Py-alkyl, or pyrimidylalkyl] are prepared. For example, 5-chloro-3-methylthio-1,2,4-thiadiazole was reacted with PhCH2OH in DMF in the presence of NaH to give 5-benzyloxy-3-methylthio-1,2,4-thiadiazole (II). I at concentration of 500 ppm killed more than 85% of aphid gossypii on cucumber seedlings in 6 days.

IT 566897-10-7P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (herbicide; preparation of alkyloxy(alkylthio)thiadiazole derivs. having control activities against injurious arthropods)

RN 566897-10-7 HCAPLUS

CN 1,2,4-Thiadiazole, 3-(methylthio)-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT 566897-11-8P 566897-12-9P 566897-13-0P
566897-14-1P 566897-15-2P 566897-16-3P
566897-17-4P 566897-18-5P 566897-19-6P
566897-20-9P 566897-21-0P 566897-22-1P
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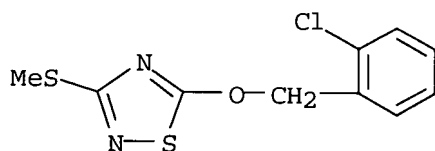
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN

(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(herbicide; preparation of alkyloxy(alkylthio)thiadiazole derivs. having control activities against injurious arthropods)

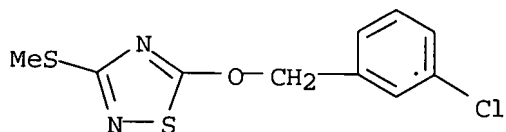
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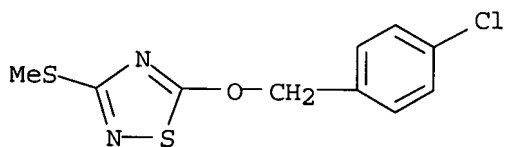
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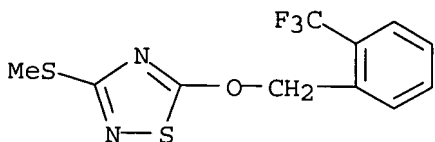
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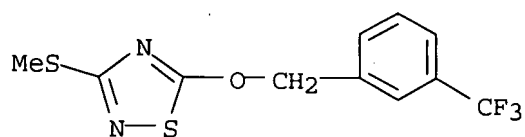
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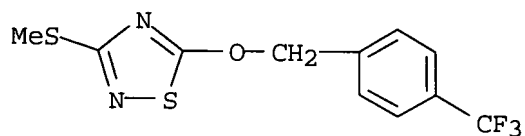
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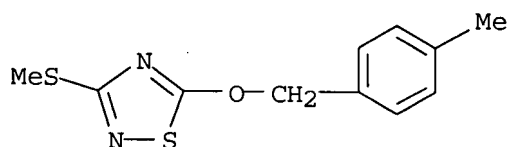
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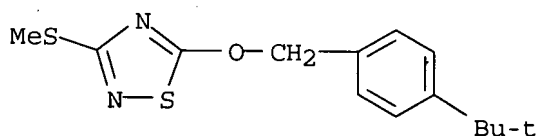
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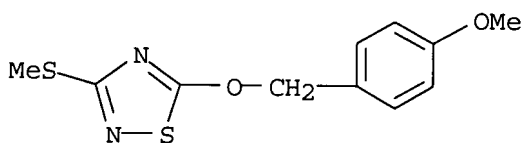
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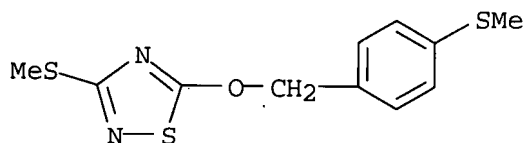
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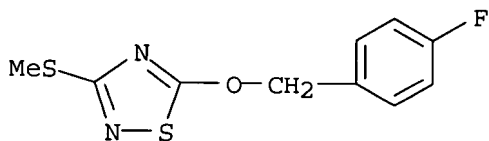
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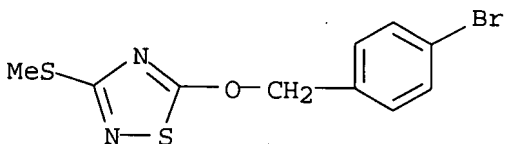
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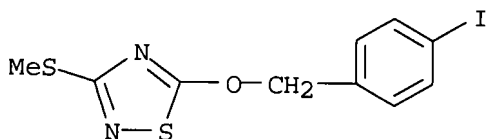
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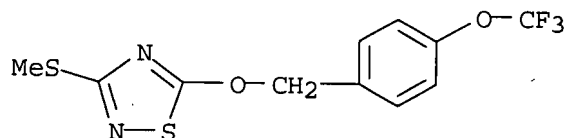
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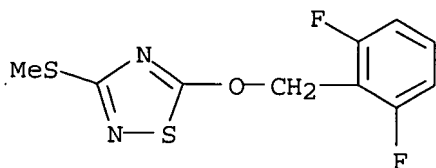
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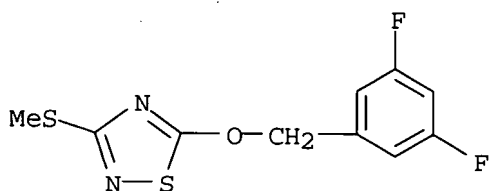
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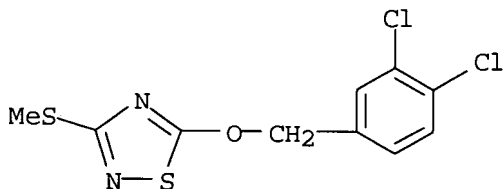
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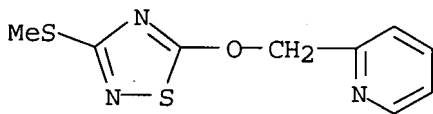
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(CA INDEX NAME)



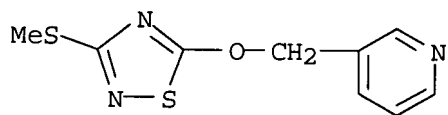
RN 566897-27-6 HCAPLUS
CN 1,2,4-Thiadiazole, 5-[(3,4-dichlorophenyl)methoxy]-3-(methylthio)- (9CI)
(CA INDEX NAME)



RN 566897-28-7 HCAPLUS
CN Pyridine, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl]- (9CI)
(CA INDEX NAME)

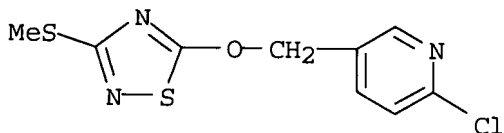


RN 566897-29-8 HCAPLUS
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(CA INDEX NAME)



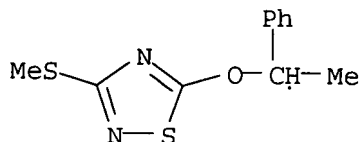
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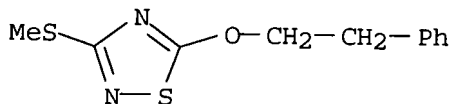
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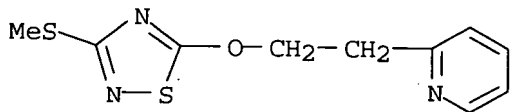
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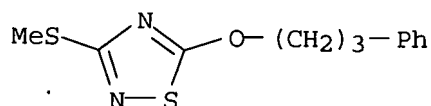
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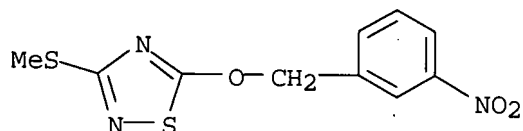
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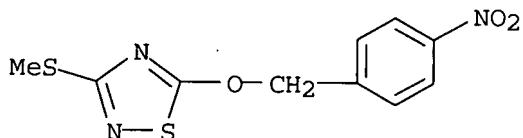
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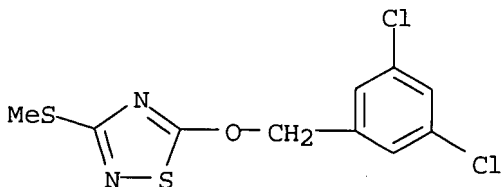
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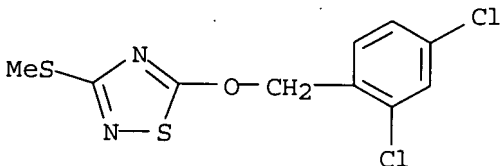
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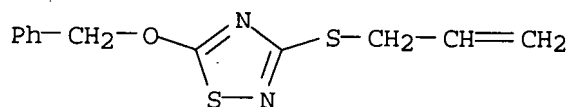
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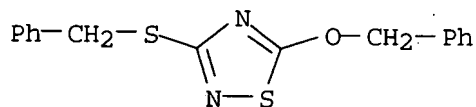
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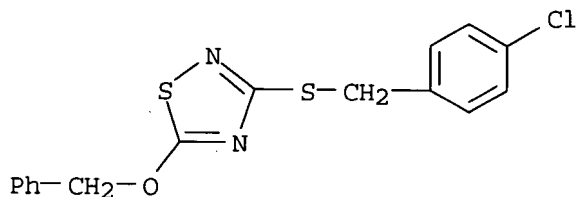
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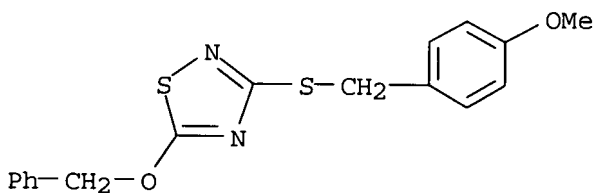
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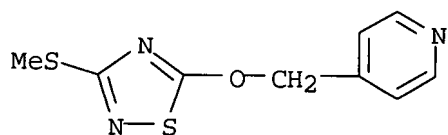
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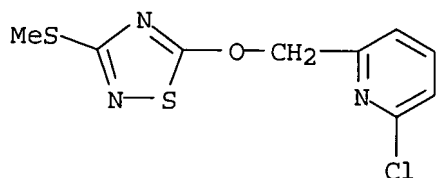
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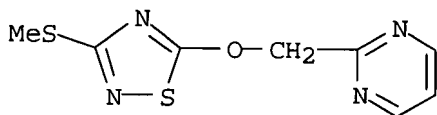
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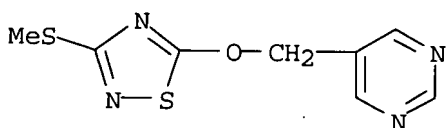
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CN Pyrimidine, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI) (CA INDEX NAME)



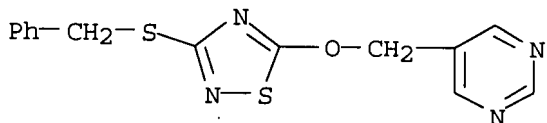
RN 566897-46-9 HCAPLUS

CN Pyrimidine, 5-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI) (CA INDEX NAME)



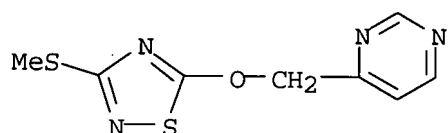
RN 566897-47-0 HCAPLUS

CN Pyrimidine, 5-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI) (CA INDEX NAME)



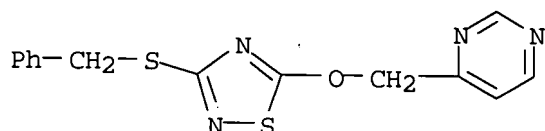
RN 566897-48-1 HCAPLUS

CN Pyrimidine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI) (CA INDEX NAME)



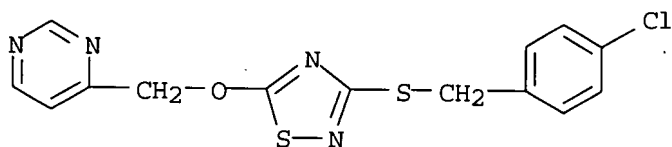
RN 566897-49-2 HCAPLUS

CN Pyrimidine, 4-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]methyl]-(9CI) (CA INDEX NAME)



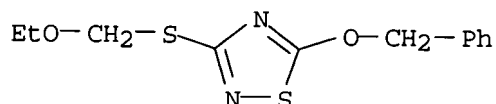
RN 566897-50-5 HCAPLUS

CN Pyrimidine, 4-[[[3-[[[4-chlorophenyl)methyl]thio]-1,2,4-thiadiazol-5-yl]oxy]methyl]-(9CI) (CA INDEX NAME)



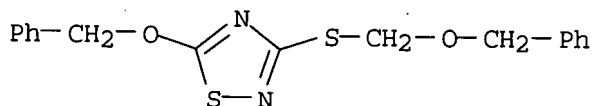
RN 566897-51-6 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[(ethoxymethyl)thio]-5-(phenylmethoxy)-(9CI) (CA INDEX NAME)



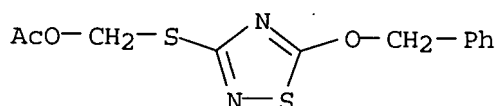
RN 566897-52-7 HCAPLUS

CN 1,2,4-Thiadiazole, 5-(phenylmethoxy)-3-[[[phenylmethoxy]methyl]thio]-(9CI) (CA INDEX NAME)

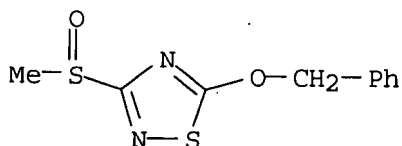


RN 566897-53-8 HCAPLUS

CN Methanol, [[5-(phenylmethoxy)-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



IT 566897-57-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of alkyloxy(alkylthio)thiadiazole derivs. having control
 activities against injurious arthropods)
 RN 566897-57-2 HCAPLUS
 CN 1,2,4-Thiadiazole, 3-(methylsulfinyl)-5-(phenylmethoxy)- (9CI) (CA INDEX
 NAME)



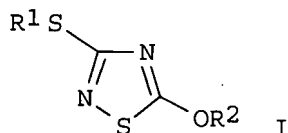
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l13 ibib abs hitstr tot

L13 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:333715 HCAPLUS
 DOCUMENT NUMBER: 140:339331
 TITLE: Preparation of thiadiazole compounds as
 arthropodocides
 INVENTOR(S): Ihara, Hideki
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004033452	A1	20040422	WO 2003-JP12831	20031007
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004131438	A2	20040430	JP 2002-298489	20021011
AU 2003271112	A1	20040504	AU 2003-271112	20031007

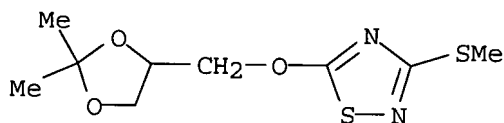
EP 1550661 A1 20050706 EP 2003-751359 20031007
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 BR 2003014616 A 20050726 BR 2003-14616 20031007
 CN 1703413 A 20051130 CN 2003-80101245 20031007
 US 2006014962 A1 20060119 US 2005-528398 20050317 <--
 PRIORITY APPLN. INFO.: JP 2002-298489 A 20021011
 WO 2003-JP12831 W 20031007
 OTHER SOURCE(S): MARPAT 140:339331
 GI



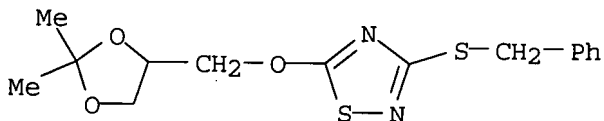
AB Title compds. I (R1 = alkyl, alkenyl, alkynyl, etc.; R2 = ~~heterocyclalkyl~~ are prepared Thus, reaction of 5-chloro-3-(4-methylbenzyl)thio-1,2,4-thiadiazole with 2,2-dimethyl-1,3-dioxolane-4-methanol in DMF in the presence of NaH at room temperature for 4 h gave 5-(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy-3-(4-methylbenzyl)thio-1,2,4-thiadiazole (II). II showed arthropodocidal activity against *Aphis gossypii* at 500 ppm.

IT 680220-80-8P 680220-90-0P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of thiadiazole compds. as arthropodocides)

RN 680220-80-8 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(methylthio)- (9CI) (CA INDEX NAME)



RN 680220-90-0 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



IT 680220-76-2P 680220-78-4P 680220-82-0P
 680220-84-2P 680220-86-4P 680220-88-6P
 680220-92-2P 680220-94-4P 680220-97-7P
 680220-99-9P 680221-01-6P 680221-03-8P
 680221-05-0P 680221-07-2P 680221-09-4P

680221-11-8P 680221-13-0P 680221-15-2P

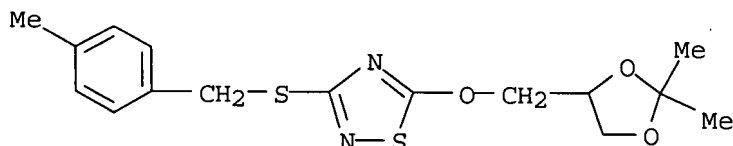
680221-17-4P 680221-19-6P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiadiazole compds. as arthropodicides)

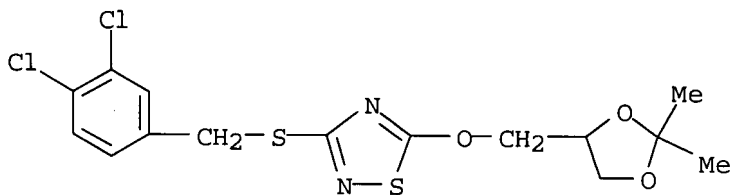
RN 680220-76-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[4-methylphenyl)methyl]thio]- (9CI) (CA INDEX NAME)



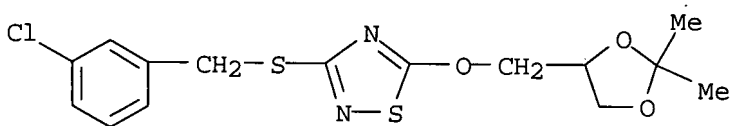
RN 680220-78-4 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[3,4-dichlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



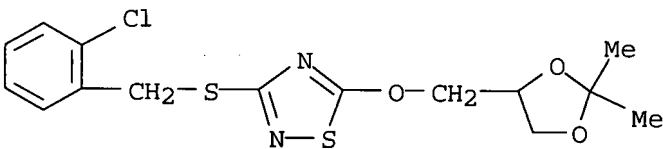
RN 680220-82-0 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[3-chlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



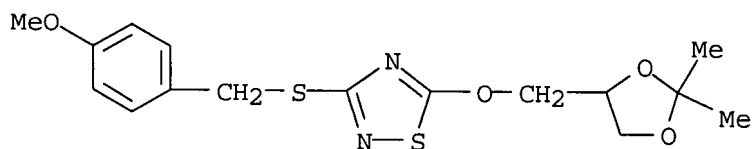
RN 680220-84-2 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[2-chlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



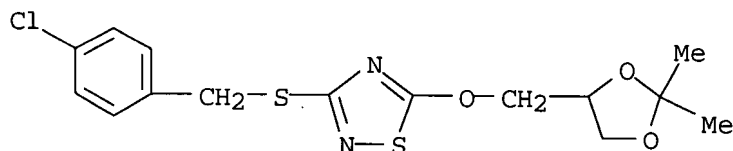
RN 680220-86-4 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[4-methoxyphenyl)methyl]thio]- (9CI) (CA INDEX NAME)



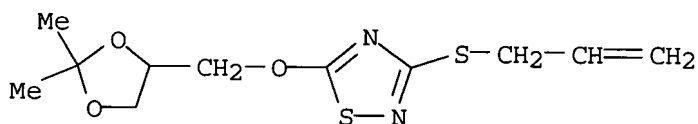
RN 680220-88-6 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[4-chlorophenyl]methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



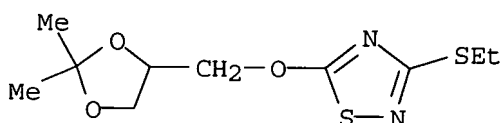
RN 680220-92-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(2-propenylthio)- (9CI) (CA INDEX NAME)



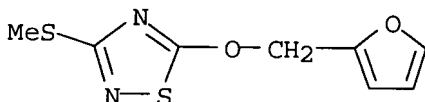
RN 680220-94-4 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-(ethylthio)- (9CI) (CA INDEX NAME)



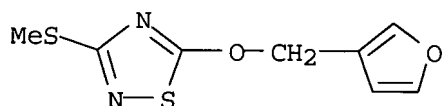
RN 680220-97-7 HCAPLUS

CN 1,2,4-Thiadiazole, 5-(2-furanylmethoxy)-3-(methylthio)- (9CI) (CA INDEX NAME)

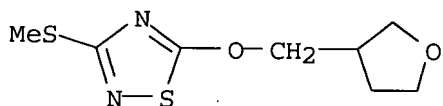


RN 680220-99-9 HCAPLUS

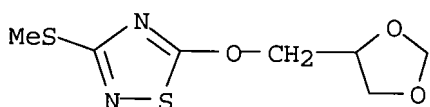
CN 1,2,4-Thiadiazole, 5-(3-furanylmethoxy)-3-(methylthio)- (9CI) (CA INDEX NAME)



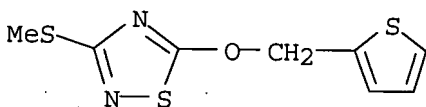
RN 680221-01-6 HCAPLUS
CN 1,2,4-Thiadiazole, 3-(methylthio)-5-[(tetrahydro-3-furanyl)methoxy]- (9CI)
(CA INDEX NAME)



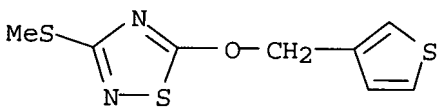
RN 680221-03-8 HCAPLUS
CN 1,2,4-Thiadiazole, 5-(1,3-dioxolan-4-ylmethoxy)-3-(methylthio)- (9CI) (CA
INDEX NAME)



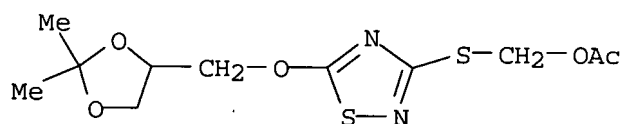
RN 680221-05-0 HCAPLUS
CN 1,2,4-Thiadiazole, 3-(methylthio)-5-(2-thienylmethoxy)- (9CI) (CA INDEX
NAME)



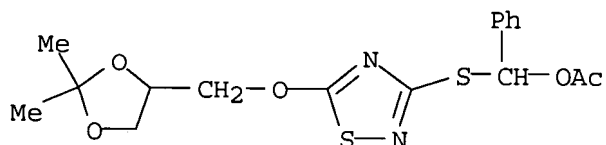
RN 680221-07-2 HCAPLUS
CN 1,2,4-Thiadiazole, 3-(methylthio)-5-(3-thienylmethoxy)- (9CI) (CA INDEX
NAME)



RN 680221-09-4 HCAPLUS
CN Methanol, [[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)

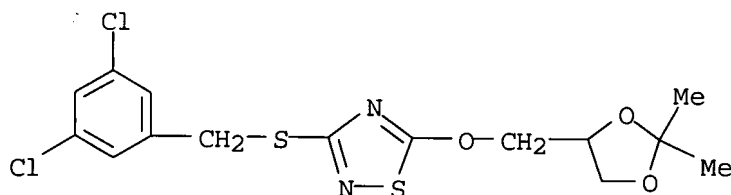


RN 680221-11-8 HCAPLUS

CN Benzenemethanol, α -[[5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-1,2,4-thiadiazol-3-yl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)

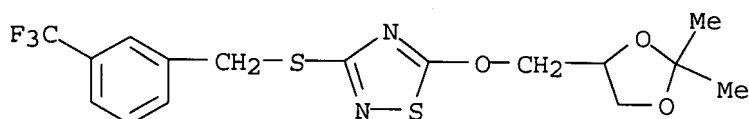
RN 680221-13-0 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[[(3,5-dichlorophenyl)methyl]thio]-5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



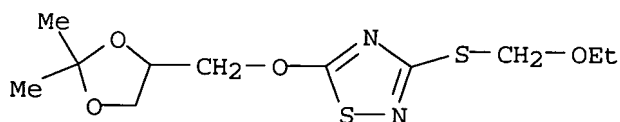
RN 680221-15-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[[3-(trifluoromethyl)phenyl]methyl]thio]- (9CI) (CA INDEX NAME)



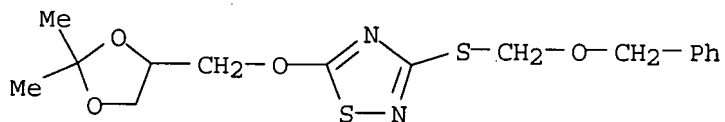
RN 680221-17-4 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[ethoxymethyl]thio]- (9CI) (CA INDEX NAME)

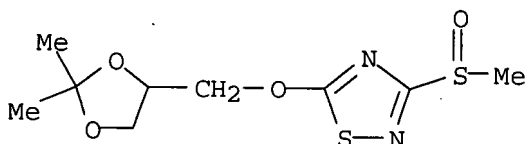


RN 680221-19-6 HCAPLUS

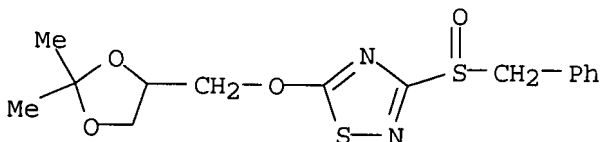
CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-[[[phenylmethoxy)methyl]thio]- (9CI) (CA INDEX NAME)



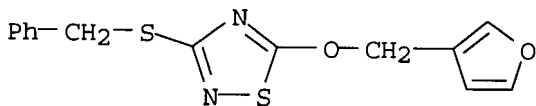
IT 680221-22-1P 680221-23-2P 680221-40-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of thiadiazole compds. as arthropodicides)
 RN 680221-22-1 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-
 (methylsulfinyl)- (9CI) (CA INDEX NAME)



RN 680221-23-2 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-[(2,2-dimethyl-1,3-dioxolan-4-yl)methoxy]-3-
 [(phenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 680221-40-3 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-(3-furanylmethoxy)-3-[(phenylmethyl)thio]- (9CI) (CA
 INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:570972 HCAPLUS

DOCUMENT NUMBER: 139:133570

TITLE: Preparation of 5-alkyloxy-3-alkylthio-1,2,4-
 thiadiazole derivatives having control activities
 against injurious arthropods

INVENTOR(S): Ihara, Hideki; Sakamoto, Noriyasu; Tomioka, Hiroki

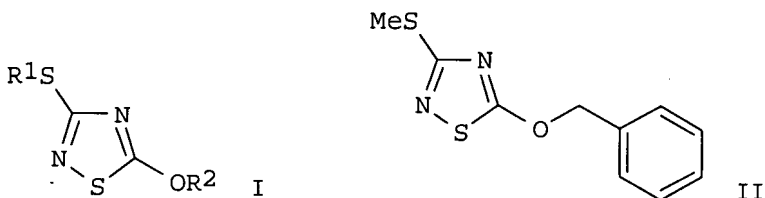
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: RCT-Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059897	A1	20030724	WO 2003-JP237	20030115
W: AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003203224	A1	20030730	AU 2003-203224	20030115
JP 2003277372	A2	20031002	JP 2003-6746	20030115
EP 1475374	A1	20041110	EP 2003-701718	20030115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003006823	A	20041221	BR 2003-6823	20030115
CN 1617863	A	20050518	CN 2003-802385	20030115
US 2005215578	A1	20050929	US 2004-498651	20040610 <--
PRIORITY APPLN. INFO.:			JP 2002-8356	A 20020117
			WO 2003-JP237	W 20030115
OTHER SOURCE(S):			MARPAT 139:133570	
GI				



AB The title thiadiazole compds. with general formula of I, which have excellent control activities against injurious arthropods, [wherein R1 = Me, alkenyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkoxyalkyl, alkylthioalkoxyalkyl, (un)substituted PhO-alkyl, Ph-alkoxyalkyl, or acyloxyalkyl; R2 = (un)substituted Ph-alkyl, Py-alkyl, or pyrimidylalkyl] are prepared For example, 5-chloro-3-methylthio-1,2,4-thiadiazole was reacted with PhCH2OH in DMF in the presence of NaH to give 5-benzyloxy-3-methylthio-1,2,4-thiadiazole (II). I at concentration of 500 ppm killed more than 85% of aphid gossypii on cucumber seedlings in 6 days.

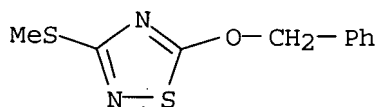
IT 566897-10-7P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(herbicide; preparation of alkyloxy(alkylthio)thiadiazole derivs. having control activities against injurious arthropods)

RN 566897-10-7 HCAPLUS

CN 1,2,4-Thiadiazole, 3-(methylthio)-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)

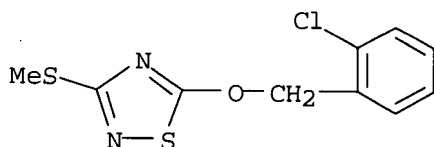


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 566897-50-5P 566897-51-6P 566897-52-7P
 566897-53-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (herbicide; preparation of alkyloxy(alkylthio)thiadiazole derivs. having control activities against injurious arthropods)

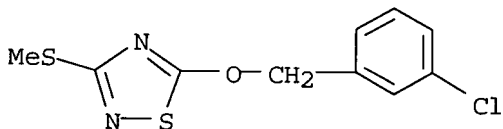
RN 566897-11-8 HCAPLUS

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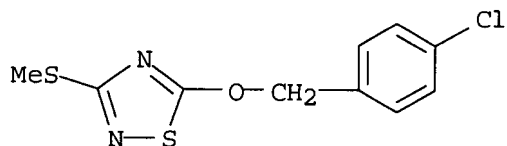
RN 566897-12-9 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(3-chlorophenyl)methoxy]-3-(methylthio)- (9CI) (CA INDEX NAME)



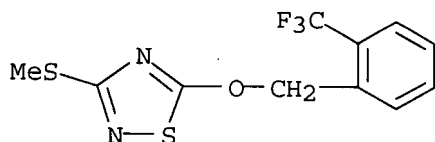
RN 566897-13-0 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(4-chlorophenyl)methoxy]-3-(methylthio)- (9CI) (CA INDEX NAME)



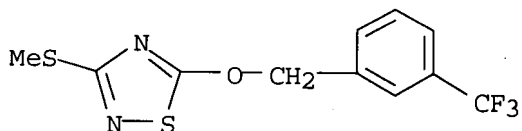
RN 566897-14-1 HCAPLUS

CN 1,2,4-Thiadiazole, 3-(methylthio)-5-[[2-(trifluoromethyl)phenyl]methoxy]-(9CI) (CA INDEX NAME)



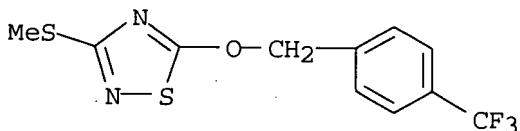
RN 566897-15-2 HCAPLUS

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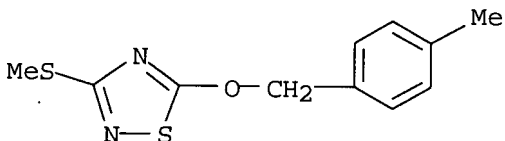
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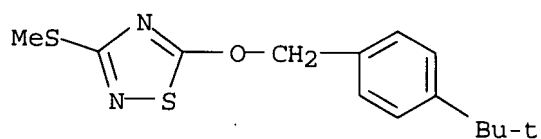
RN 566897-17-4 HCAPLUS

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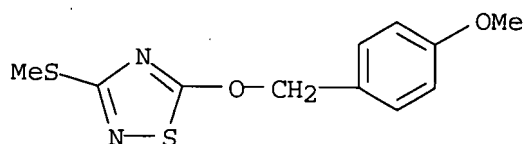
RN 566897-18-5 HCAPLUS

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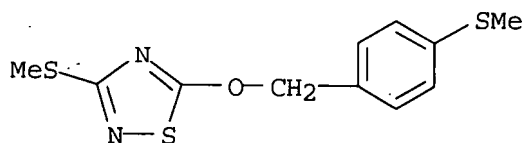
RN 566897-19-6 HCAPLUS

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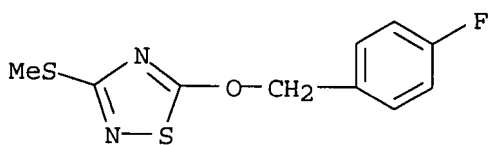
RN 566897-20-9 HCAPLUS

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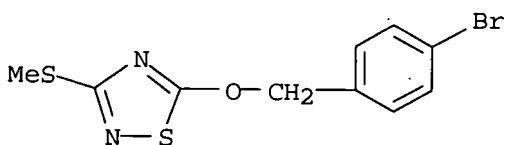
RN 566897-21-0 HCAPLUS

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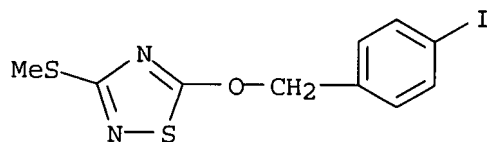
RN 566897-22-1 HCAPLUS

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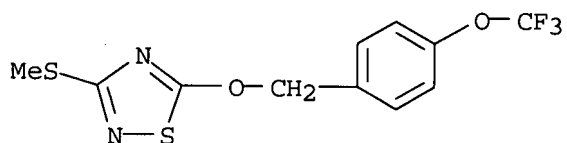
RN 566897-23-2 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(4-iodophenyl)methoxy]-3-(methylthio)- (9CI) (CA INDEX NAME)



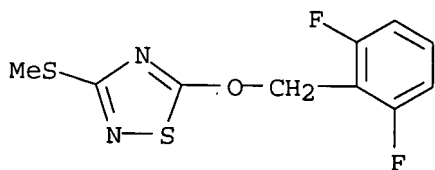
RN 566897-24-3 HCAPLUS

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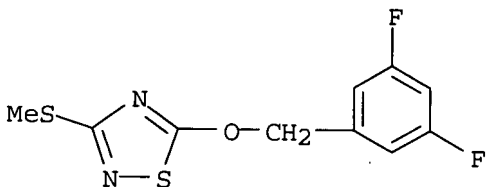
RN 566897-25-4 HCAPLUS

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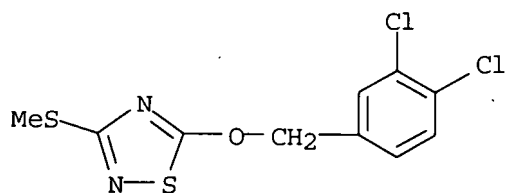
RN 566897-26-5 HCAPLUS

CN 1,2,4-Thiadiazole, 5-[(3,5-difluorophenyl)methoxy]-3-(methylthio)- (9CI) (CA INDEX NAME)

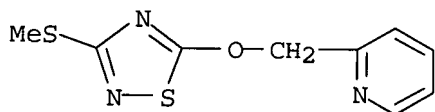


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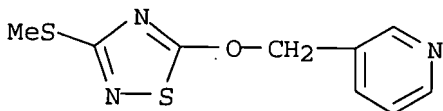
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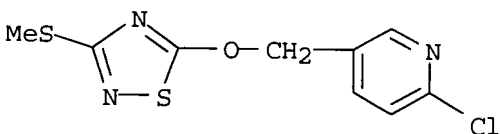
RN 566897-28-7 HCAPLUS

CN Pyridine, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)

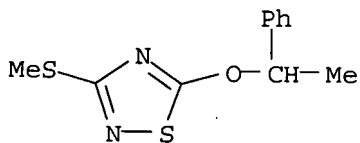
RN 566897-29-8 HCAPLUS

CN Pyridine, 3-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)

RN 566897-30-1 HCAPLUS

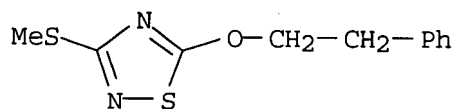
CN Pyridine, 2-chloro-5-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl] - (9CI)
(CA INDEX NAME)

RN 566897-31-2 HCAPLUS

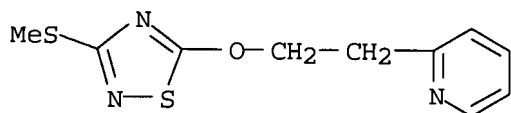
CN 1,2,4-Thiadiazole, 3-(methylthio)-5-(1-phenylethoxy) - (9CI) (CA INDEX
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RN 566897-32-3 HCAPLUS

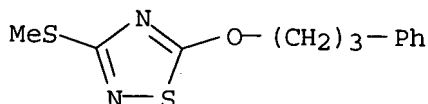
CN 1,2,4-Thiadiazole, 3-(methylthio)-5-(2-phenylethoxy) - (9CI) (CA INDEX
NAME)



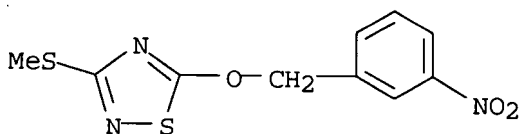
RN 566897-33-4 HCAPLUS

CN Pyridine, 2-[2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]ethyl]- (9CI)
(CA INDEX NAME)

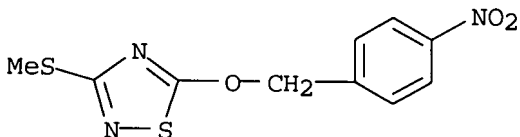
RN 566897-34-5 HCAPLUS

CN 1,2,4-Thiadiazole, 3-(methylthio)-5-(3-phenylpropoxy)- (9CI) (CA INDEX
NAME)

RN 566897-35-6 HCAPLUS

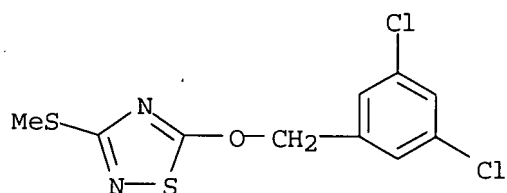
CN 1,2,4-Thiadiazole, 3-(methylthio)-5-[(3-nitrophenyl)methoxy]- (9CI) (CA
INDEX NAME)

RN 566897-36-7 HCAPLUS

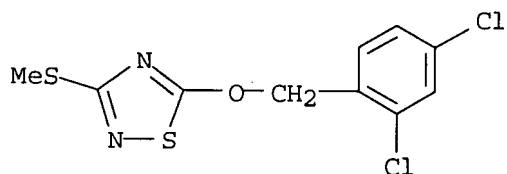
CN 1,2,4-Thiadiazole, 3-(methylthio)-5-[(4-nitrophenyl)methoxy]- (9CI) (CA
INDEX NAME)

RN 566897-37-8 HCAPLUS

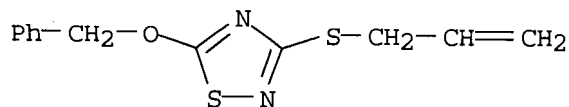
CN 1,2,4-Thiadiazole, 5-[(3,5-dichlorophenyl)methoxy]-3-(methylthio)- (9CI)
(CA INDEX NAME)



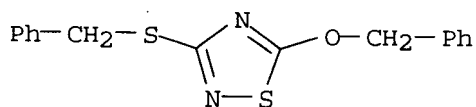
RN 566897-38-9 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-[(2,4-dichlorophenyl)methoxy]-3-(methylthio)- (9CI)
 (CA INDEX NAME)



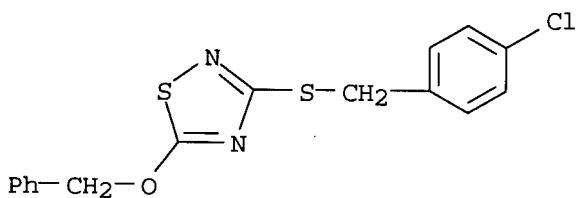
RN 566897-39-0 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-(phenylmethoxy)-3-(2-propenylthio)- (9CI) (CA INDEX NAME)



RN 566897-40-3 HCAPLUS
 CN 1,2,4-Thiadiazole, 5-(phenylmethoxy)-3-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)

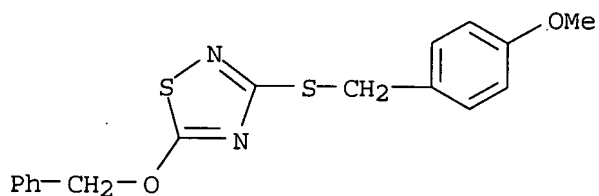


RN 566897-41-4 HCAPLUS
 CN 1,2,4-Thiadiazole, 3-[[[4-chlorophenyl)methyl]thio]-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)



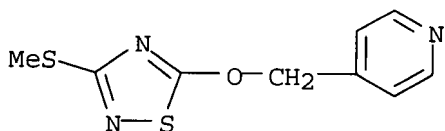
RN 566897-42-5 HCAPLUS

CN 1,2,4-Thiadiazole, 3-[[[4-methoxyphenyl)methyl]thio]-5-(phenylmethoxy)-
(9CI) (CA INDEX NAME)



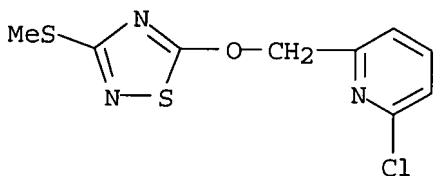
RN 566897-43-6 HCAPLUS

CN Pyridine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl]- (9CI)
(CA INDEX NAME)



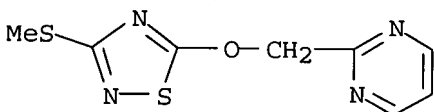
RN 566897-44-7 HCAPLUS

CN Pyridine, 2-chloro-6-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl]-
(9CI) (CA INDEX NAME)



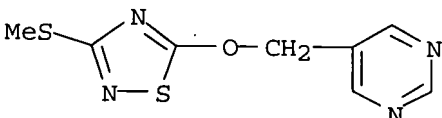
RN 566897-45-8 HCAPLUS

CN Pyrimidine, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl]- (9CI)
(CA INDEX NAME)

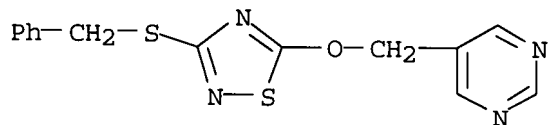


RN 566897-46-9 HCAPLUS

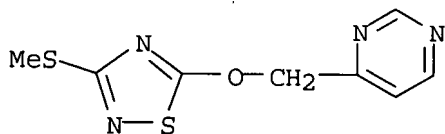
CN Pyrimidine, 5-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl]- (9CI)
(CA INDEX NAME)



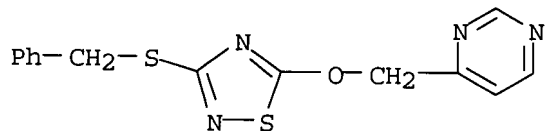
RN 566897-47-0 HCAPLUS
 CN Pyrimidine, 5-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]methyl]-(9CI) (CA INDEX NAME)



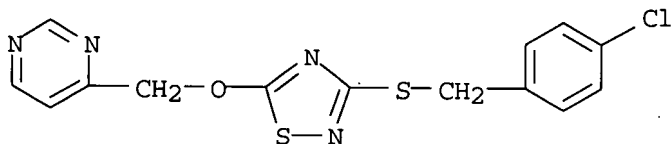
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 CN Pyrimidine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]methyl]-(9CI) (CA INDEX NAME)



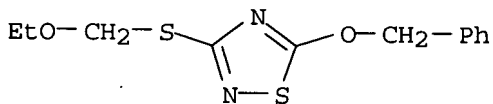
RN 566897-49-2 HCAPLUS
 CN Pyrimidine, 4-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]methyl]-(9CI) (CA INDEX NAME)



RN 566897-50-5 HCAPLUS
 CN Pyrimidine, 4-[[[3-[[[4-chlorophenyl)methyl]thio]-1,2,4-thiadiazol-5-yl]oxy]methyl]-(9CI) (CA INDEX NAME)



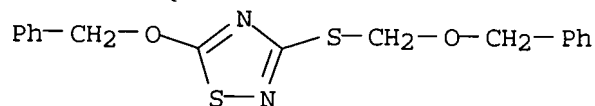
RN 566897-51-6 HCAPLUS
 CN 1,2,4-Thiadiazole, 3-[(ethoxymethyl)thio]-5-(phenylmethoxy)-(9CI) (CA INDEX NAME)



11/05/2006 10528398.trn

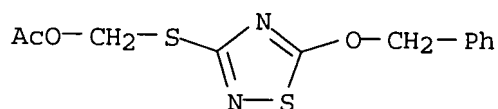
RN 566897-52-7 HCAPLUS

CN 1,2,4-Thiadiazole, 5-(phenylmethoxy)-3-[[(phenylmethoxy)methyl]thio]-
(9CI) (CA INDEX NAME)



RN 566897-53-8 HCAPLUS

CN Methanol, [[5-(phenylmethoxy)-1,2,4-thiadiazol-3-yl]thio]-, acetate
(ester) (9CI) (CA INDEX NAME)



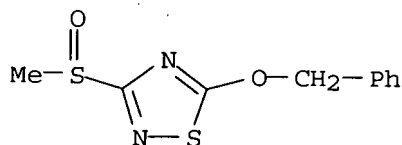
IT 566897-57-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of alkyloxy(alkylthio)thiadiazole derivs. having control
activities against injurious arthropods)

RN 566897-57-2 HCAPLUS

CN 1,2,4-Thiadiazole, 3-(methylsulfinyl)-5-(phenylmethoxy)- (9CI) (CA INDEX
NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:63986 HCAPLUS

DOCUMENT NUMBER: 134:115961

TITLE: Preparation of heteroaryloxyacetanilides as herbicides

INVENTOR(S): Muller, Klaus-Helmut; Rohe, Lothar; Kluth, Joachim;
Drewes, Mark Wilhelm; Dahmen, Peter; Feucht, Dieter;
Pontzen, Rolf

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

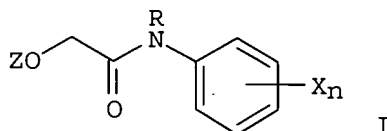
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
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EP 1202981 A1 20020508 EP 2000-949287 20000707
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US 6544931 B1 20030408 US 2002-31174 20020116 <--
PRIORITY APPLN. INFO.: DE 1999-19933936 A 19990720
WO 2000-EP6461 W 20000707

OTHER SOURCE(S): MARPAT 134:115961
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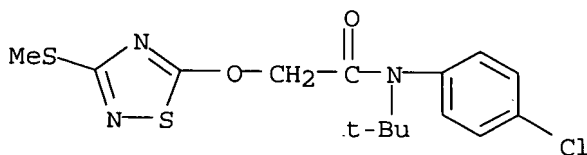


AB Title compds. [I; n = 0-3; R = sBu, tBu, 1-ethylpropyl, 2-propynyl, 2-butynyl, etc.; X = NO₂, cyano, F, Cl, Br, (substituted) Me, Et, nPr, iPr, etc.; Z = (substituted) oxazolyl, benzoxazolyl, thiazolyl, benzothiazolyl, oxadiazolyl, thiadiazolyl], were prepared Thus, N-(tert-butyl)-N-(4-chlorophenyl)-2-hydroxyacetamide (preparation given) and 2-methylsulfonyl-5-trifluoromethyl-1,3,4-thiadiazole in acetone at -15° were treated with aqueous NaOH followed by stirring for 3 h at -15° to give 79% N-(tert-butyl)-N-(4-chlorophenyl)-2-(5-trifluoromethyl-1,3,4-thiadiazol-2-yloxy)acetamide. Several I at 500 g/ha postemergent gave 100% control of Amaranthus.

IT 320716-82-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of heteroaryloxyacetanilides as herbicides)

RN 320716-82-3 HCAPLUS

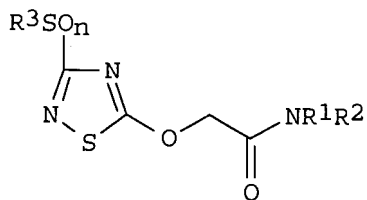
CN Acetamide, N-(4-chlorophenyl)-N-(1,1-dimethylethyl)-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



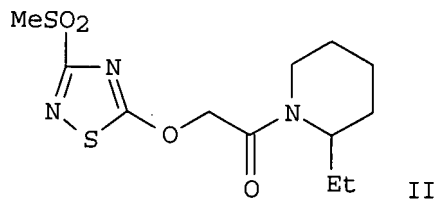
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:997048 HCAPLUS
 DOCUMENT NUMBER: 124:146173
 TITLE: Preparation of alkylsulfinyl- and -sulfonyl-1,2,4-thiadiazolyloxyacetamides as herbicides
 INVENTOR(S): Foerster, Heinz; Santel, Hans-Joachim; Dollinger, Markus
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 45 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4415338	A1	19951109	DE 1994-4415338	19940502
WO 9529905	A1	19951109	WO 1995-EP1472	19950419
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9524069	A1	19951129	AU 1995-24069	19950419
EP 758326	A1	19970219	EP 1995-917938	19950419
EP 758326	B1	20011031		
R: DE, FR				
CN 1151738	A	19970611	CN 1995-193810	19950419
CN 1073561	B	20011024		
JP 09512281	T2	19971209	JP 1995-527963	19950419
US 5827800	A	19981027	US 1996-732239	19961025 <--
PRIORITY APPLN. INFO.: DE 1994-4415338 A 19940502				
WO 1995-EP1472 W 19950419				
OTHER SOURCE(S): MARPAT 124:146173				
GI				



I



II

AB Title compds. [I; R1 = H, alk(en)yl, alkynyl, aralkyl; R2 = (cyclo)alk(en)yl, alkoxy, aryl(alkyl), etc.; NR1R2 = heterocyclyl; R3 = alkyl, aryl(alkyl)] were prepared as herbicides (no data). Thus, 3,5-bis(methylsulfonyl)-1,2,4-thiadiazole was etherified by hydroxyacetic acid 2-ethylpiperide to give title compound II.

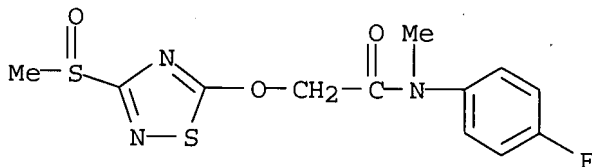
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173160-99-1P 173161-00-7P 173161-01-8P
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 173161-32-5P 173161-33-6P 173161-34-7P
 173161-35-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of alkylsulfinyl- and -sulfonyl-1,2,4-thiadiazolyloxyacetamides as herbicides)

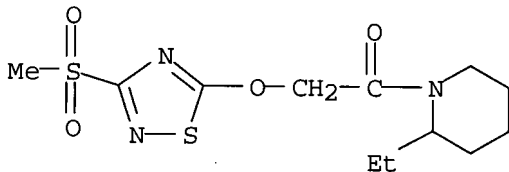
RN 160980-69-8 HCAPLUS

CN Acetamide, N-(4-fluorophenyl)-N-methyl-2-[[3-(methylsulfinyl)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



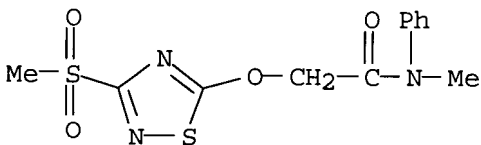
RN 173160-91-3 HCAPLUS

CN Piperidine, 2-ethyl-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



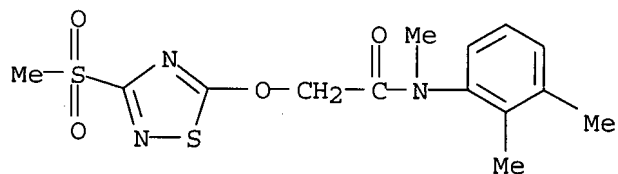
RN 173160-92-4 HCAPLUS

CN Acetamide, N-methyl-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl- (9CI) (CA INDEX NAME)



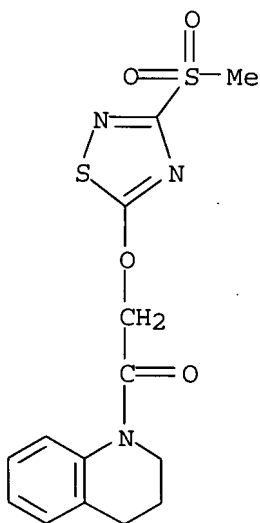
RN 173160-93-5 HCAPLUS

CN Acetamide, N-(2,3-dimethylphenyl)-N-methyl-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



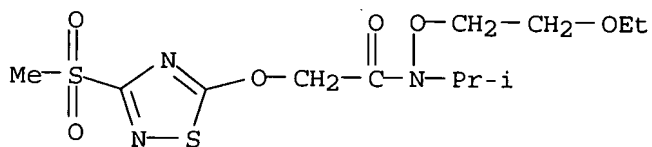
RN 173160-94-6 HCAPLUS

CN Quinoline, 1,2,3,4-tetrahydro-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



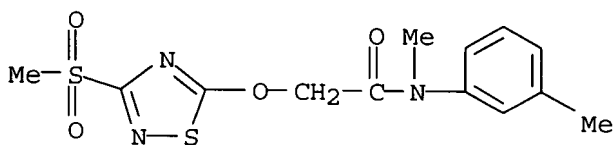
RN 173160-95-7 HCAPLUS

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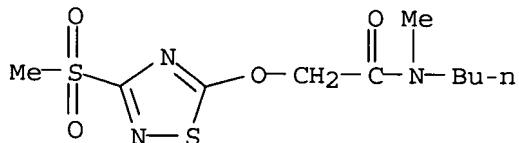
RN 173160-96-8 HCAPLUS

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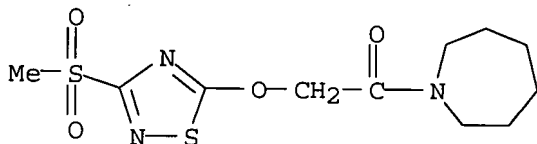
RN 173160-97-9 HCAPLUS

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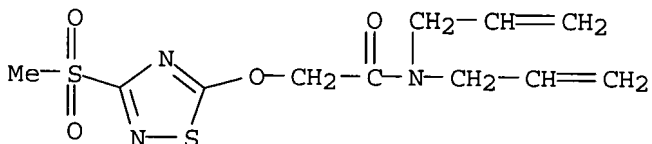
RN 173160-98-0 HCAPLUS

CN 1H-Azepine, hexahydro-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



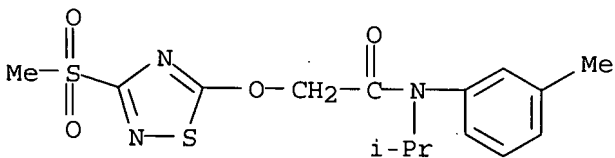
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CN Acetamide, 2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)



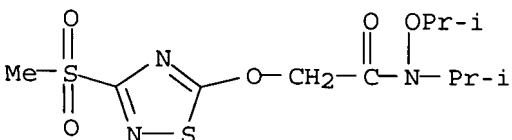
RN 173161-00-7 HCAPLUS

CN Acetamide, N-(1-methylethyl)-N-(3-methylphenyl)-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



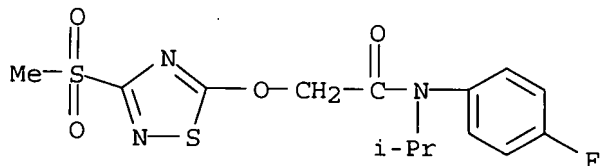
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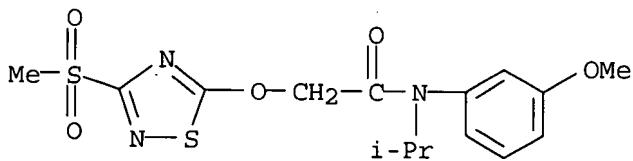
RN 173161-02-9 HCAPLUS

CN Acetamide, N-(4-fluorophenyl)-N-(1-methylethyl)-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy] - (9CI) (CA INDEX NAME)



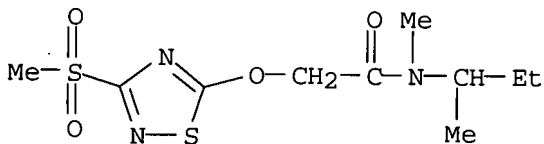
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CN Acetamide, N-(3-methoxyphenyl)-N-(1-methylethyl)-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy] - (9CI) (CA INDEX NAME)



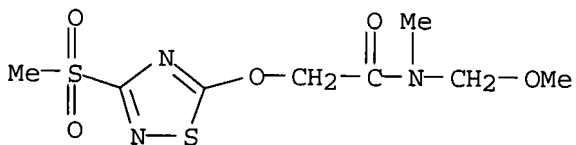
RN 173161-04-1 HCAPLUS

CN Acetamide, N-methyl-N-(1-methylpropyl)-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy] - (9CI) (CA INDEX NAME)



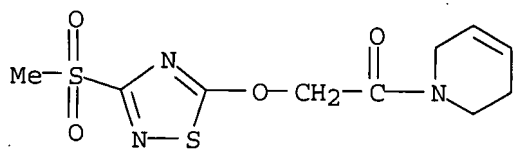
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CN Acetamide, N-(methoxymethyl)-N-methyl-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy] - (9CI) (CA INDEX NAME)



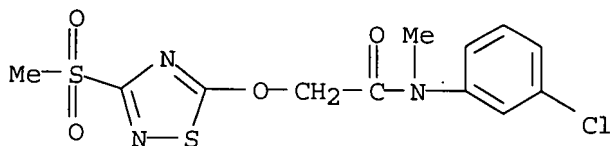
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CN Pyridine, 1,2,3,6-tetrahydro-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl] - (9CI) (CA INDEX NAME)



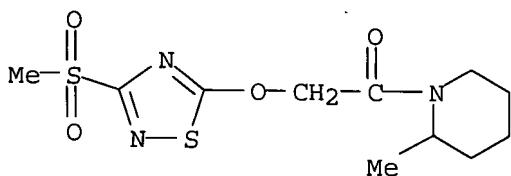
RN 173161-07-4 HCAPLUS

CN Acetamide, N-(3-chlorophenyl)-N-methyl-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



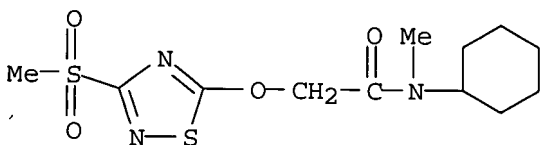
RN 173161-08-5 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



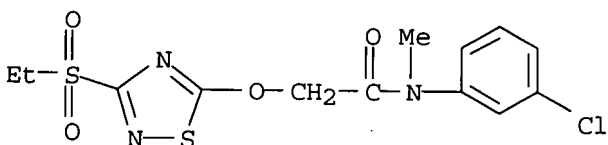
RN 173161-09-6 HCAPLUS

CN Acetamide, N-cyclohexyl-N-methyl-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



RN 173161-10-9 HCAPLUS

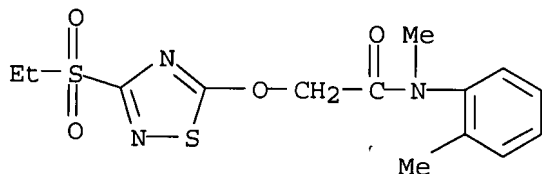
CN Acetamide, N-(3-chlorophenyl)-2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-methyl- (9CI) (CA INDEX NAME)



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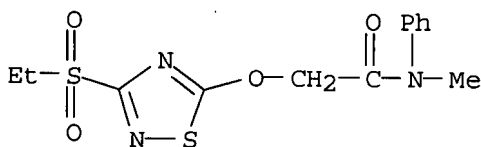
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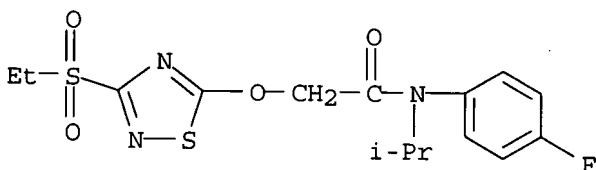
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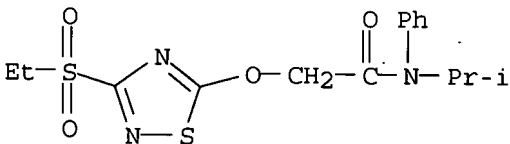
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CN Acetamide, 2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-(4-fluorophenyl)-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



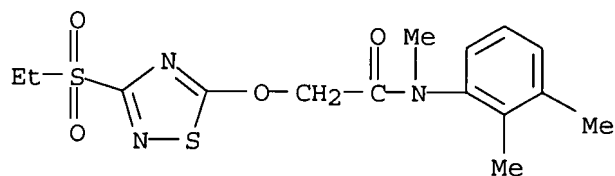
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CN Acetamide, 2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-(1-methylethyl)-N-phenyl- (9CI) (CA INDEX NAME)



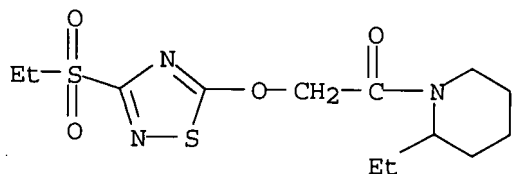
RN 173161-15-4 HCAPLUS

CN Acetamide, N-(2,3-dimethylphenyl)-2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-methyl- (9CI) (CA INDEX NAME)



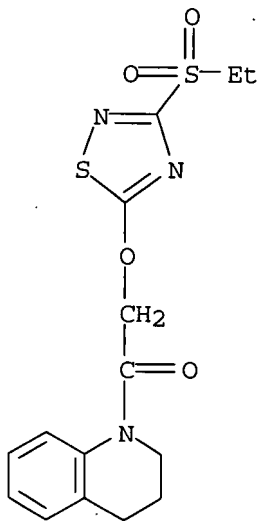
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CN Piperidine, 2-ethyl-1-[[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



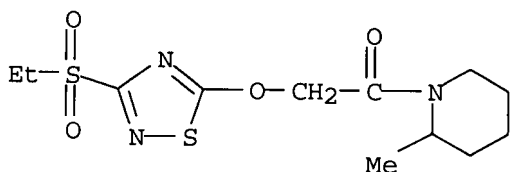
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CN Quinoline, 1-[[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)

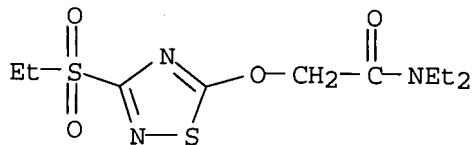


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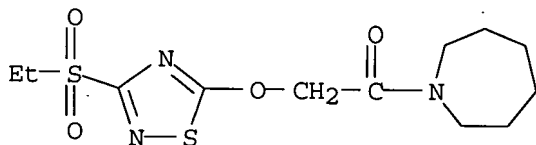
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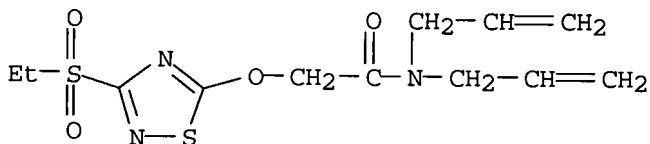
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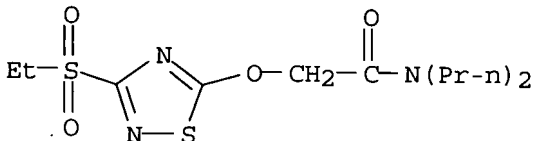
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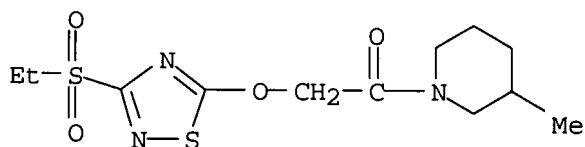
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 CN Acetamide, 2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N,N-di-2-propenyl-(9CI) (CA INDEX NAME)



RN 173161-22-3 HCAPLUS
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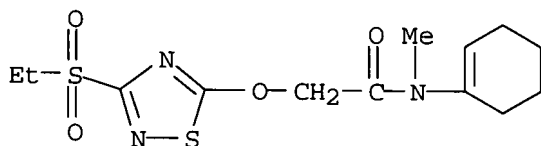


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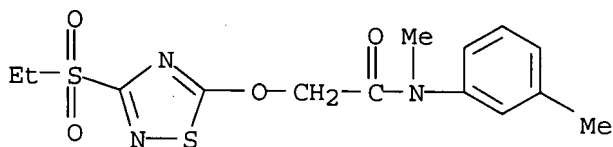
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CN Acetamide, N-1-cyclohexen-1-yl-2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-methyl- (9CI) (CA INDEX NAME)



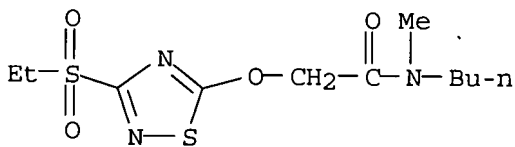
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CN Acetamide, 2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-methyl-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)



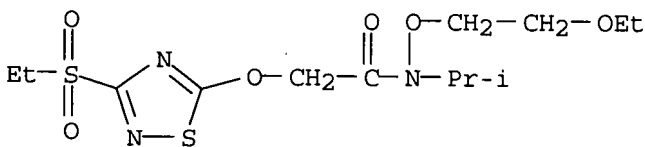
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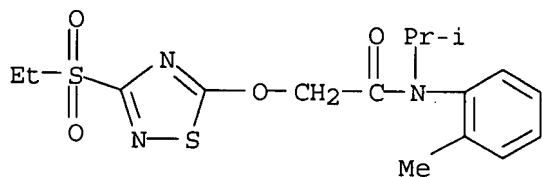
RN 173161-27-8 HCAPLUS

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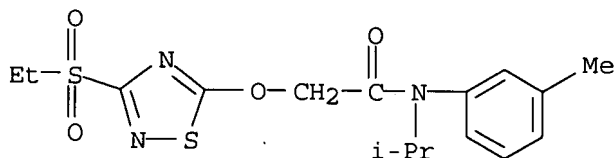
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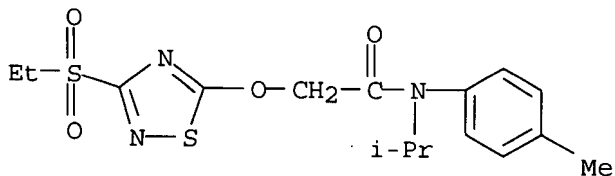
RN 173161-29-0 HCAPLUS

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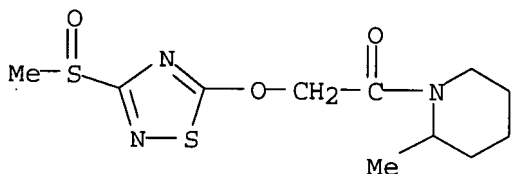
RN 173161-30-3 HCAPLUS

CN Acetamide, 2-[[3-(ethylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-(1-methylethyl)-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)



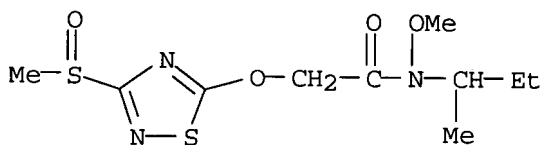
RN 173161-31-4 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylsulfinyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

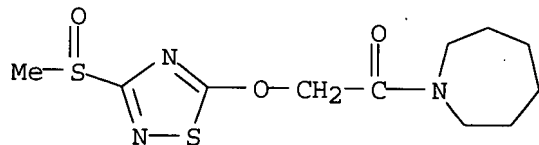


RN 173161-32-5 HCAPLUS

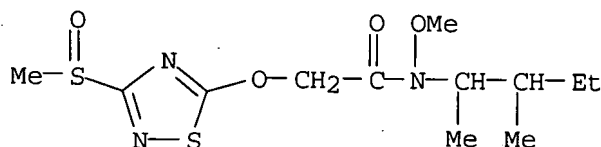
CN Acetamide, N-methoxy-N-(1-methylpropyl)-2-[[3-(methylsulfinyl)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



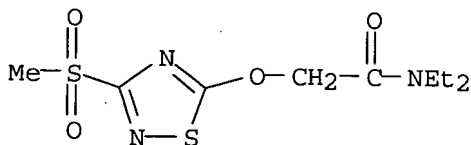
RN 173161-33-6 HCAPLUS
 CN 1H-Azepine, hexahydro-1-[[[3-(methylsulfinyl)-1,2,4-thiadiazol-5-yl]oxy]acetyl] - (9CI) (CA INDEX NAME)



RN 173161-34-7 HCAPLUS
 CN Acetamide, N-(1,2-dimethylbutyl)-N-methoxy-2-[[3-(methylsulfinyl)-1,2,4-thiadiazol-5-yl]oxy] - (9CI) (CA INDEX NAME)

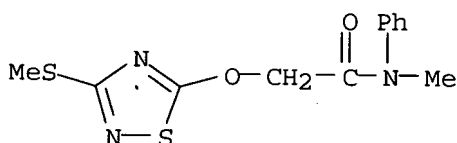


RN 173161-35-8 HCAPLUS
 CN Acetamide, N,N-diethyl-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy] - (9CI) (CA INDEX NAME)



IT 76668-26-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of alkylsulfinyl- and -sulfonyl-1,2,4-thiadiazolyloxyacetamides as herbicides)

RN 76668-26-3 HCAPLUS
 CN Acetamide, N-methyl-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy] -N-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:994834 HCAPLUS
 DOCUMENT NUMBER: 124:117350
 TITLE: Preparation of (4,4-difluorobut-3-enylthio)-substituted heterocyclic or carbocyclic ring compounds

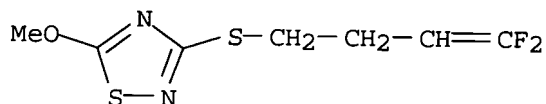
INVENTOR(S): having pesticidal activity
 Turnbull, Michael Drysdale; Bansal, Harjinder Singh;
 Smith, Alison Mary; Salmon, Roger; Fitzjohn, Steven;
 Godfrey, Christopher Richard Ayles; Hotson, Matthew
 Brian; Sillars, Nan Catherine; Dowling, Alan John
 PATENT ASSIGNEE(S): Zeneca Ltd., UK
 SOURCE: PCT Int. Appl., 194 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524403	A1	19950914	WO 1995-GB400	19950227
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2182520	AA	19950914	CA 1995-2182520	19950227
AU 9518164	A1	19950925	AU 1995-18164	19950227
AU 685242	B2	19980115		
EP 749433	A1	19961227	EP 1995-909854	19950227
EP 749433	B1	20030507		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1143958	A	19970226	CN 1995-192029	19950227
HU 74902	A2	19970228	HU 1996-2417	19950227
HU 215211	B	19981028		
BR 9507042	A	19970909	BR 1995-7042	19950227
JP 09510197	T2	19971014	JP 1995-523286	19950227
CZ 285605	B6	19990915	CZ 1996-2632	19950227
RU 2151147	C1	20000620	RU 1996-120148	19950227
RO 116399	B1	20010130	RO 1996-1788	19950227
SK 281491	B6	20010409	SK 1996-1148	19950227
AT 239714	E	20030515	AT 1995-909854	19950227
PT 749433	T	20030829	PT 1995-909854	19950227
ES 2199240	T3	20040216	ES 1995-909854	19950227
US 5705516	A	19980106	US 1995-400912	19950308 <--
US 5912243	A	19990615	US 1996-702623	19960828 <--
FI 9603539	A	19960909	FI 1996-3539	19960909
NO 9603776	A	19961107	NO 1996-3776	19960909
LV 11686	B	19970620	LV 1996-363	19960910
US 5952359	A	19990914	US 1997-887858	19970703 <--
PRIORITY APPLN. INFO.:			GB 1994-4716	A 19940310
			GB 1994-4717	A 19940310
			GB 1994-4718	A 19940310
			GB 1994-4719	A 19940310
			GB 1994-4720	A 19940310
			GB 1994-4721	A 19940310
			GB 1995-521	A 19950111
			WO 1995-GB400	W 19950227
			US 1995-400912	A3 19950308

OTHER SOURCE(S): MARPAT 124:117350
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

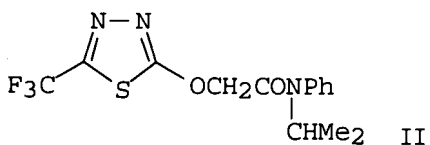
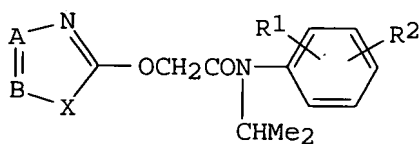
- AB The title compds. represented by the general formula $RS(O)_nCH_2CH_2CH:CF_2$ [$n = 0, 1, 2$; R is a group of formulas Q - Q13 (X = O, S), etc., wherein the $S(O)_mCH_2CH_2CH:CF_2$ group is at least one of R1 (when attached to a carbon atom), R2, R3, R4, R5 or R6; e.g. when R1 is attached to a carbon atom, R2, R3, R4, R5 and R6 are each independently H, optionally substituted alkyl, optionally substituted alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl, alkoxy, alkenyloxy, alkynyloxy, hydroxyalkyl, alkoxyalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted heteroarylalkyl, optionally substituted aryloxy, optionally substituted arylalkoxy, optionally substituted aryloxyalkyl, optionally substituted heteroaryloxy, optionally substituted heteroarylalkoxy, optionally substituted heteroaryloxyalkyl, haloalkyl, haloalkenyl, haloalkynyl, haloalkoxy, haloalkenyloxy, haloalkynyloxy, halo, HO, cyano, NO₂, NR₇R₈, NR₇COR₈, NR₇CSR₈, NR₇SO₂R₈, N(SO₂R₇)(SO₂R₈), COR₇, CONR₇R₈, alkyl-CONR₇R₈, CR₇NR₈, CO₂R₇, O₂CR₇, SR₇, SOR₇, SO₂R₇, alkyl-SR₇, alkyl-SOR₇, alkyl-SO₂R₇, OSO₂R₇, SO₂NR₇R₈, CSNR₇R₉, SiR₇R₈R₉, OCH₂CO₂R₇, OCH₂CH₂CO₂R₇, CONR₇SO₂R₈, alkyl-CONR₇SO₂R₈, NHCONR₇R₈, NHCSNR₇R₈, or an adjacent pair of R1 - R6 when taken together form a fused 5- or 6-membered carbocyclic or heterocyclic ring] are prepared. Thus, a solution of 4,4-difluorobut-3-enyl thioacetate in 50% aqueous NaOH was stirred vigorously for 30 min, followed by successively adding Et 5-chloro-4-methylisoxazole in CH₂Cl₂ and Bu₄NBr, and the reaction mixture was stirred at the ambient temperature for 3 h to give Et 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxylate. The latter compound was saponified with a mixture of 2 M NaOH and isopropanol and acidified with 2 M HCl to give the acid 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxylic acid, which was treated with Et chloroformate and Et₃N in CH₂Cl₂ at 0° and then with NH₃(g) to give the amide 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxamide (I). I controlled 100% Tetranychus urticae (spider mite) and Myzus persicae (green peach aphid) upon contract at 100 ppm and 100% Meloidogyne incognita (root knot nematode) at 2 ppm as a drench solution to 2 wk old cucumber plants.
- IT 172934-33-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of (difluorobutenylthio)-substituted heterocyclic or carbocyclic ring compds. as pesticides)
- RN 172934-33-7 HCAPLUS
- CN 1,2,4-Thiadiazole, 3-[(4,4-difluoro-3-butenyl)thio]-5-methoxy- (9CI) (CA INDEX NAME)



L13 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:235318 HCAPLUS
DOCUMENT NUMBER: 112:235318

TITLE: Azolyloxyacetanilides as herbicides
 INVENTOR(S): Foerster, Heinz; Andree, Roland; Santel, Hans Joachim;
 Schmidt, Robert R.; Strang, Harry
 PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 14 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3821600	A1	19891228	DE 1988-3821600	19880627
EP 348737	A1	19900103	EP 1989-110799	19890614
EP 348737	B1	19930804		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
ES 2058396	T3	19941101	ES 1989-110799	19890614
AU 8936423	A1	19900104	AU 1989-36423	19890615
AU 635705	B2	19930401		
US 4968342	A	19901106	US 1989-366577	19890615 <--
CA 1334422	A1	19950214	CA 1989-603725	19890623
DK 8903161	A	19891228	DK 1989-3161	19890626
DK 175225	B1	20040712		
BR 8903106	A	19900206	BR 1989-3106	19890626
JP 02045475	A2	19900215	JP 1989-160993	19890626
JP 2909097	B2	19990623		
KR 128344	B1	19980403	KR 1989-8789	19890626
US 5090991	A	19920225	US 1990-569880	19900820 <--
AU 9337159	A1	19930701	AU 1993-37159	19930423
AU 654084	B2	19941020		
PRIORITY APPLN. INFO.:			DE 1988-3821600	A 19880627
			US 1989-366577	A3 19890615
OTHER SOURCE(S):		CASREACT 112:235318; MARPAT 112:235318		
GI				

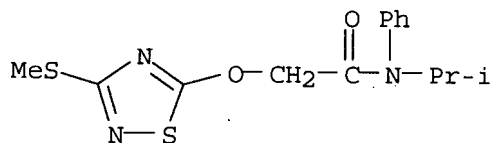


- AB The title compds. [I; R1 = H, halo, CN, NO2, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio; R2 = H, halo, alkyl, alkoxy, R3 = halo, CN, alkylsulfinyl, (halo)alkylsulfonyl, alkyl, alkoxy, alkylthio; R4 = R3, (substituted) Ph, haloalkylsulfinyl, haloalkylsulfonyl, CY2ZR5; R5 = (substituted) alkyl, Ph; A = N, CR3; B = N, CR4; Y = H, halo; Z = O, S, SO, SO2], useful as herbicides (no data), were prepared Thus, a mixture of α -methylsulfonyl-5-trifluoromethyl-1,3,4-thiadiazole and HOCH2CON(CHMe2)Ph in acetone at -20° was treated dropwise with aqueous NaOH followed by stirring for 3 h at -20° to give 85% thiadiazole II. I are said to have superior selectivity in crops.
- IT 127272-61-1P 127272-66-6P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as herbicide)

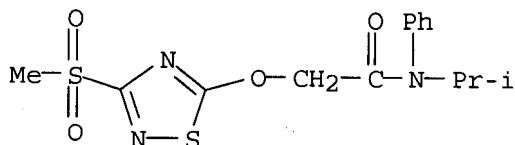
RN 127272-61-1 HCAPLUS

CN Acetamide, N-(1-methylethyl)-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl- (9CI) (CA INDEX NAME)



RN 127272-66-6 HCAPLUS

CN Acetamide, N-(1-methylethyl)-2-[[3-(methylsulfonyl)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:156484 HCAPLUS

DOCUMENT NUMBER: 106:156484

TITLE: Preparation of herbicidal azolyloxy-carboxylic acid amides

INVENTOR(S): Foerster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; Schmidt, Robert R.

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: U.S., 37 pp. Cont. of U.S. Ser. No. 132,055, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

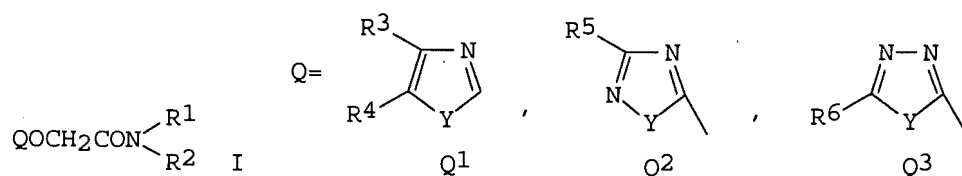
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4645525	A	19870224	US 1983-526518	19830826 <--
DE 3004326	A1	19810813	DE 1980-3004326	19800206
US 4756741	A	19880712	US 1986-819200	19860115 <--
PRIORITY APPLN. INFO.:			DE 1979-2914033	A 19790406
			DE 1980-3004326	A 19800206
			US 1980-132055	A1 19800320
			DE 1979-2914003	A 19790406
			US 1983-526518	A3 19830826

OTHER SOURCE(S): CASREACT 106:156484

GI



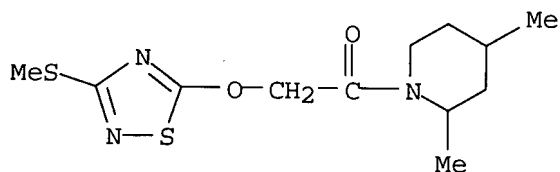
AB The title compds. I [R¹ = H, (substituted) alkyl, PhCH₂, (substituted) propargyl, allyl, cycloalkyl; R² = alkyl, alkoxyethyl, allyl, cycloalkyl, (substituted) Ph; optionally R¹R²N = (substituted) heterocyclyl; R³, R⁴, R⁵, R⁶ = H, Cl, cyano, alkyl- or alkoxy carbonyl, (substituted) Ph, alkylsulfonyl, (cyano)alkyl, CF₃, CCl₃, PhCH₂, S, PhOCH₂; Y = S, O] useful as herbicides, are prepared Treatment of 14.8 g HOCH₂CONPhMe in Me₂CHOH with 5.6 g KOH and 13.1 g 2,4,5-trichlorothiazole at -15° to 0° gave 81% I (R¹ = Ph; R² = Me; Q = Q¹; R³ = R⁴ = Cl; Y = S), which exhibit an excellent herbicidal activity against *Echinochloa crus-galli*, and *Eleocharis acicularis*.

IT 76668-01-4P 76668-25-2P 76668-26-3P
 76668-27-4P 76668-28-5P 76668-29-6P
 76668-30-9P 76668-82-1P 76668-83-2P
 76668-84-3P 77183-06-3P 77183-13-2P
 77183-14-3P 77183-43-8P 77183-44-9P
 77183-45-0P 77183-46-1P 77183-47-2P
 77183-48-3P 77183-49-4P 77183-50-7P
 77183-52-9P 77183-53-0P 77183-59-6P
 77183-60-9P 77183-61-0P 77183-67-6P
 77183-68-7P 77183-69-8P 107761-22-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

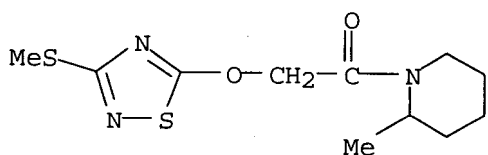
RN 76668-01-4 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



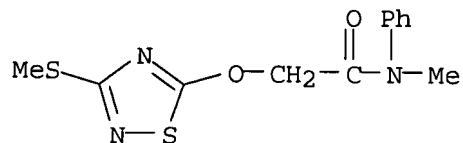
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



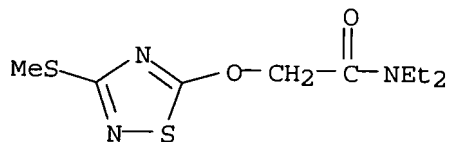
RN 76668-26-3 HCAPLUS

CN Acetamide, N-methyl-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl-
(9CI) (CA INDEX NAME)



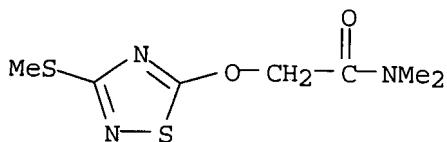
RN 76668-27-4 HCAPLUS

CN Acetamide, N,N-diethyl-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-
(9CI) (CA INDEX NAME)



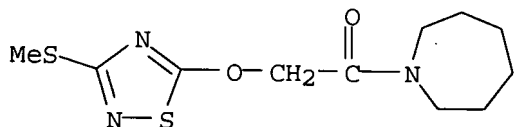
RN 76668-28-5 HCAPLUS

CN Acetamide, N,N-dimethyl-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-
(9CI) (CA INDEX NAME)



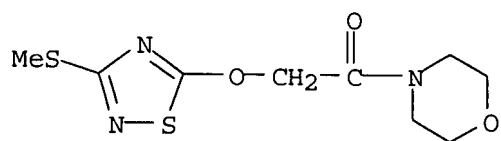
RN 76668-29-6 HCAPLUS

CN 1H-Azepine, hexahydro-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



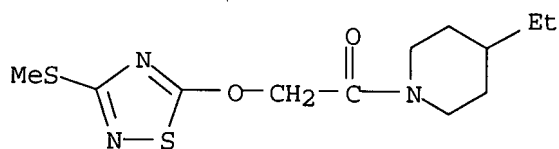
RN 76668-30-9 HCAPLUS

CN Morpholine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI)
(CA INDEX NAME)



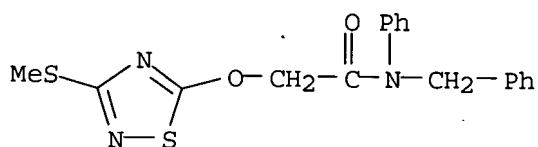
RN 76668-82-1 HCAPLUS

CN Piperidine, 4-ethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-
(9CI) (CA INDEX NAME)



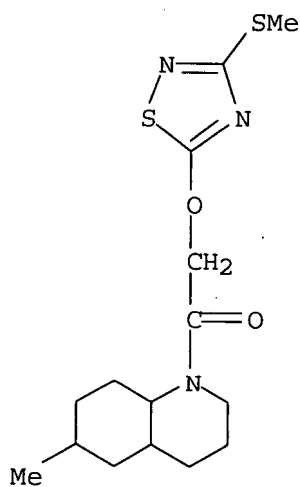
RN 76668-83-2 HCAPLUS

CN Acetamide, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl-N-
(phenylmethyl)- (9CI) (CA INDEX NAME)



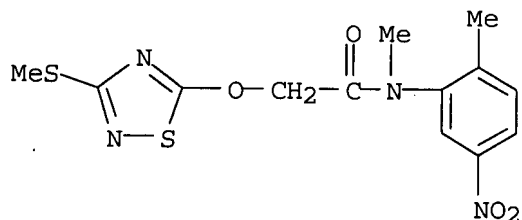
RN 76668-84-3 HCAPLUS

CN Quinoline, decahydro-6-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-
yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

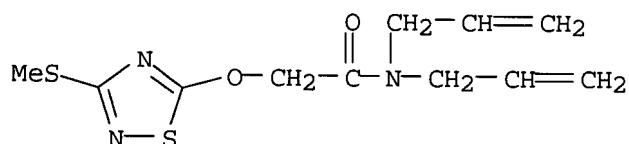


RN 77183-06-3 HCAPLUS

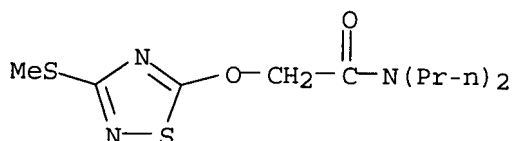
CN Acetamide, N-methyl-N-(2-methyl-5-nitrophenyl)-2-[[[3-(methylthio)-1,2,4-
thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



RN 77183-13-2 HCAPLUS

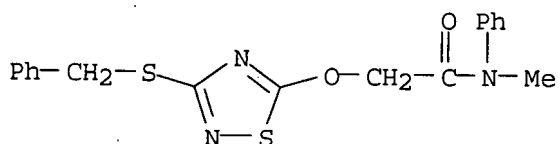
CN Acetamide, 2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N,N-di-2-propenyl-
(9CI) (CA INDEX NAME)

RN 77183-14-3 HCAPLUS

CN Acetamide, 2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N,N-dipropyl-
(9CI) (CA INDEX NAME)

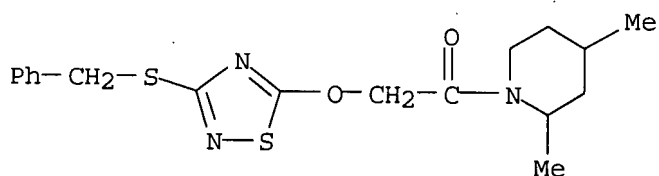
RN 77183-43-8 HCAPLUS

CN Acetamide, N-methyl-N-phenyl-2-[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



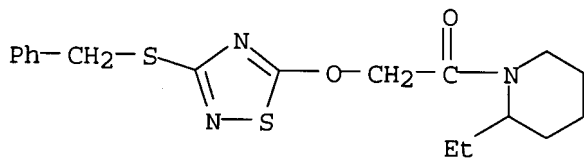
RN 77183-44-9 HCAPLUS

CN Piperidine, 2,4-dimethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



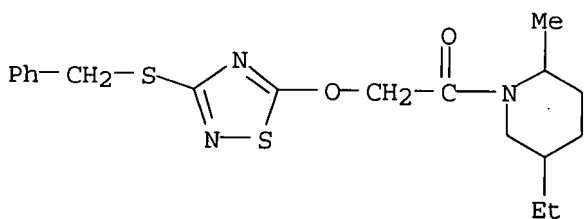
RN 77183-45-0 HCAPLUS

CN Piperidine, 2-ethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



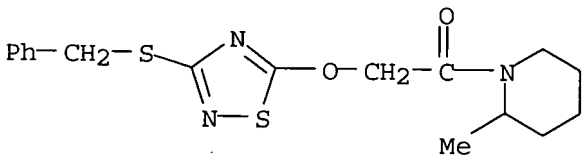
RN 77183-46-1 HCAPLUS

CN Piperidine, 5-ethyl-2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



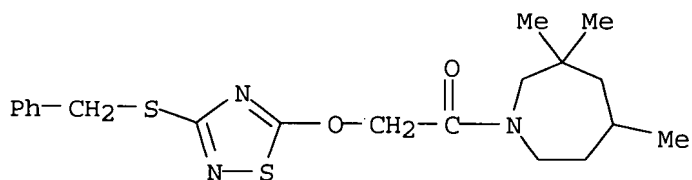
RN 77183-47-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



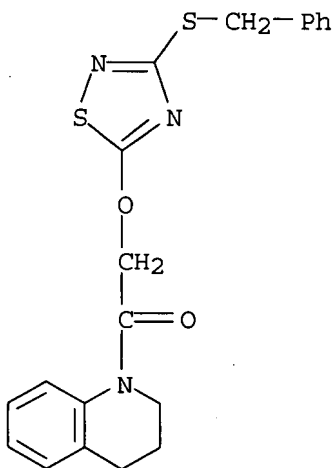
RN 77183-48-3 HCAPLUS

CN 1H-Azepine, hexahydro-3,3,5-trimethyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



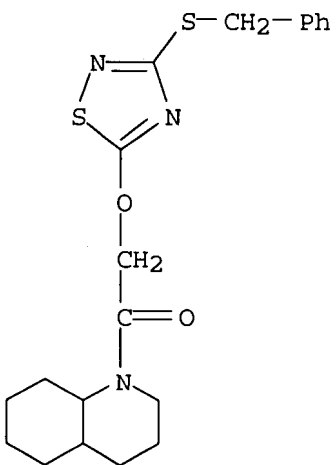
RN 77183-49-4 HCAPLUS

CN Quinoline, 1,2,3,4-tetrahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



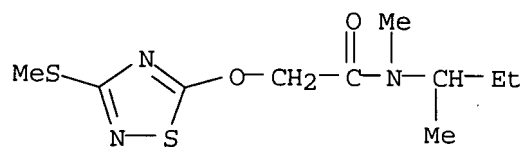
RN 77183-50-7 HCAPLUS

CN Quinoline, decahydro-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



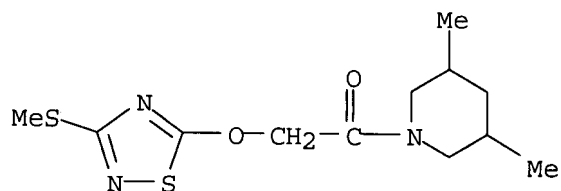
RN 77183-52-9 HCAPLUS

CN Acetamide, N-methyl-N-(1-methylpropyl)-2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



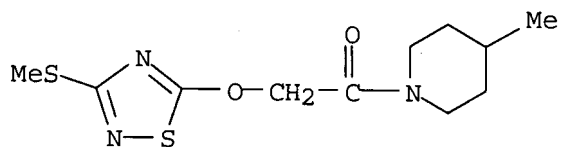
RN 77183-53-0 HCAPLUS

CN Piperidine, 3,5-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



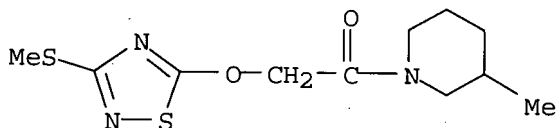
RN 77183-59-6 HCAPLUS

CN Piperidine, 4-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



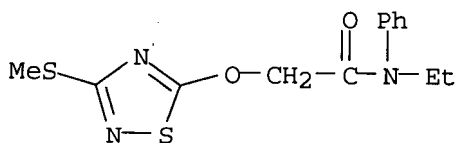
RN 77183-60-9 HCAPLUS

CN Piperidine, 3-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)



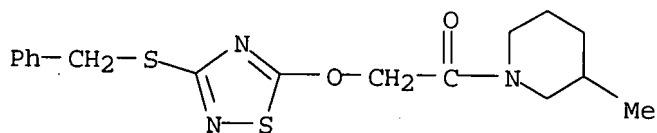
RN 77183-61-0 HCAPLUS

CN Acetamide, N-ethyl-2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl-(9CI) (CA INDEX NAME)



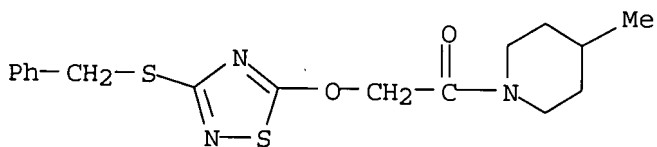
RN 77183-67-6 HCAPLUS

CN Piperidine, 3-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



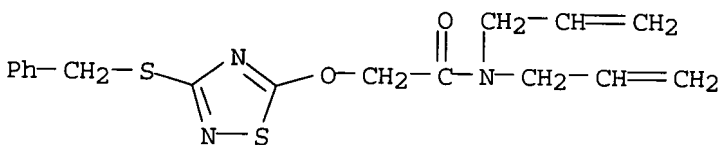
RN 77183-68-7 HCAPLUS

CN Piperidine, 4-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



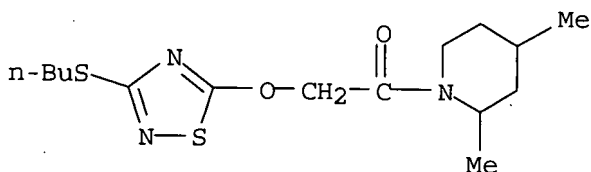
RN 77183-69-8 HCAPLUS

CN Acetamide, 2-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]-N,N-di-2-propenyl]- (9CI) (CA INDEX NAME)



RN 107761-22-8 HCAPLUS

CN Piperidine, 1-[[[3-(butylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



L13 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:207277 HCAPLUS

DOCUMENT NUMBER: 104:207277

TITLE: (Heteroaryloxy)acetamidines

INVENTOR(S): Schmidt, Thomas; Diehr, Hans Joachim

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 29 pp.

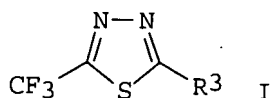
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3422861	A1	19860102	DE 1984-3422861	19840620
EP 165537	A2	19851227	EP 1985-107108	19850610
EP 165537	A3	19870304		
EP 165537	B1	19900117		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 61017575	A2	19860125	JP 1985-130072	19850617
JP 07014925	B4	19950222		
IL 75533	A1	19900118	IL 1985-75533	19850617
ES 544341	A1	19860201	ES 1985-544341	19850619
US 5101034	A	19920331	US 1991-668796	19910307 <--
PRIORITY APPLN. INFO.:			DE 1984-3422861	A 19840620
			US 1985-741098	B1 19850604
			US 1990-538599	B1 19900614
OTHER SOURCE(S):	CASREACT 104:207277; MARPAT 104:207277			
GI				

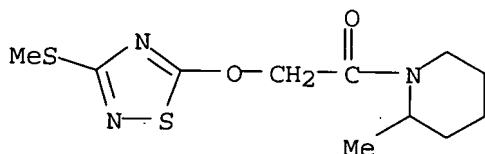


AB Herbicidal (no data) ROCH₂CONR₁R₂ [R = (un)substituted (benzo)heterocyclyl; R₁, R₂ = H, alkenyl, alkynyl, alkoxy, (un)substituted alkyl, cycloalkyl, cycloalkenyl, aryl; R₁R₂N = (un)substituted heterocyclyl] were prepared Thus, H₂NNHCS₂Me was treated with PCl₃ and cyclocondensed with CF₃CO₂H to give 82.4% 1,3,4-thiadiazole I (R = MeS). This was oxidized with H₂O₂ to give 85% I (R = MeSO₂). The latter was condensed with HOCH₂CONMePh in Me₂CO containing Et₄N⁺Br⁻/K₂CO₃ to give 90.8% I (R = PhNMeCOCH₂O).

IT 76668-25-2P 76668-26-3P 77183-13-2P
77183-47-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

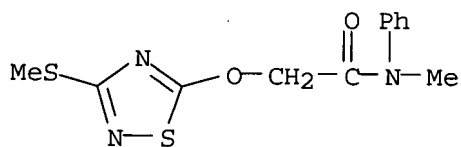
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]-(9CI) (CA INDEX NAME)

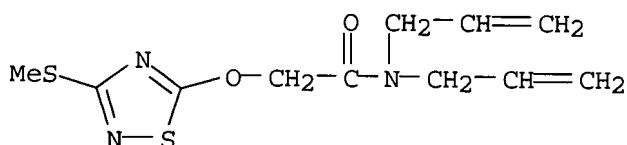


RN 76668-26-3 HCAPLUS

CN Acetamide, N-methyl-2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl]-(9CI) (CA INDEX NAME)

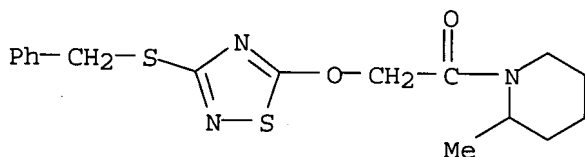


RN 77183-13-2 HCAPLUS

CN Acetamide, 2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N,N-di-2-propenyl-
(9CI) (CA INDEX NAME)

RN 77183-47-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:72107 HCAPLUS

DOCUMENT NUMBER: 98:72107

TITLE: N-(2,2,2-Trifluoroethyl)-N-alkylazolyloxyacetic acid
amides, their use as herbicides and their
intermediatesINVENTOR(S): Foerster, Heinz; Mues, Volker; Baasner, Bernd;
Hagemann, Hermann; Eue, Ludwig; Schmidt, Robert

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 60426	A2	19820922	EP 1982-101513	19820227
EP 60426	A3	19821208		
EP 60426	B1	19860423		
R: AT, BE, CH, DE, FR, GB, IT, NL				
DE 3109582	A1	19821028	DE 1981-3109582	19810313
US 4465504	A	19840814	US 1982-350520	19820219 <--
AT 19400	E	19860515	AT 1982-101513	19820227

11/05/2006 10528398.trn

JP 57159749	A2	19821001	JP 1982-35983	19820309
JP 03036826	B4	19910603		
IL 65217	A1	19851129	IL 1982-65217	19820310
DK 8201119	A	19820914	DK 1982-1119	19820312
BR 8201357	A	19830125	BR 1982-1357	19820312
ZA 8201660	A	19830223	ZA 1982-1660	19820312
CA 1188698	A1	19850611	CA 1982-398272	19820312
PRIORITY APPLN. INFO.:			DE 1981-3109582	A 19810313
			EP 1982-101513	A 19820227
OTHER SOURCE(S):	CASREACT 98:72107;	MARPAT 98:72107		
GI				

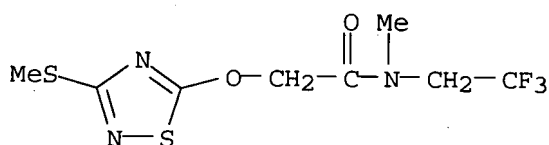


AB Herbicidal (no data) ROCH₂CONR₁CH₂CF₃ (R = heterocycle containing O or S and 1-3 N; R₁ = alkyl) were prepared from HOCH₂CONR₁CH₂CF₃. Thus, HOCH₂CONMeCH₂CF₃, prepared from AcOCH₂COCl and F₃CCH₂NHMe, was treated with 2-chloro-5-phenyl-1,3,4-thiadiazole to give thiadiazole I.

IT 84483-70-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 84483-70-5 HCAPLUS

CN Acetamide, N-methyl-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:532861 HCAPLUS

DOCUMENT NUMBER: 95:132861

TITLE: Azolyloxycarboxylic acid N-oxy-amides, intermediates for their preparation, their use and herbicides containing them

INVENTOR(S): Forster, Heinz; Maurer, Fritz; Mues, Volker; Eue, Ludwig; Schmidt, Robert Rudolf

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 52 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 29171	A1	19810527	EP 1980-106797	19801105
EP 29171	B1	19840321		

R: BE, CH, DE, FR, GB, IT, NL

DE 2946524	A1	19810611	DE 1979-2946524	19791117
US 4408055	A	19831004	US 1980-204147	19801105 <--
IL 61479	A1	19840531	IL 1980-61479	19801113
DK 8004883	A	19810518	DK 1980-4883	19801114
JP 56086176	A2	19810713	JP 1980-159664	19801114
JP 01043751	B4	19890922		
ES 496848	A1	19811116	ES 1980-496848	19801114
CA 1170264	A1	19840703	CA 1980-364649	19801114
AU 8064429	A1	19810521	AU 1980-64429	19801117
AU 541091	B2	19841213		
BR 8007486	A	19810602	BR 1980-7486	19801117
HU 28320	O	19831228	HU 1980-2746	19801117
HU 186371	B	19850729		
JP 02000140	A2	19900105	JP 1988-298449	19881128
JP 04041140	B4	19920707		

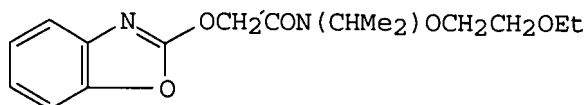
PRIORITY APPLN. INFO.:

DE 1979-2946524 A 19791117

OTHER SOURCE(S):

CASREACT 95:132861; MARPAT 95:132861

GI



AB ROCHR1CON(OR2)R3 [R = (substituted) 5-membered heteroarom. ring containing 1-3 N and optionally O or S; R1 = H, alkyl; R2, R3 = aliphatic, cycloalkyl, aryl, aralkyl; R2R3 = alkylene] were prepared and tested for herbicidal activity. Thus, HOCH2CON(CHMe2)OCH2CH2OEt reacted with 2-chlorobenzoxazole in Me2CHOH containing KOH to give 94% I.

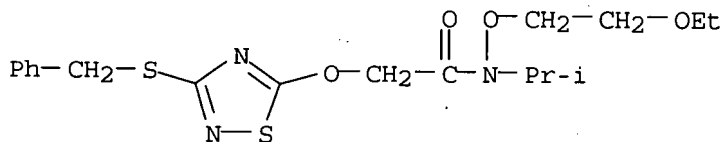
IT 79088-55-4P 79088-62-3P 79088-63-4P

79088-64-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

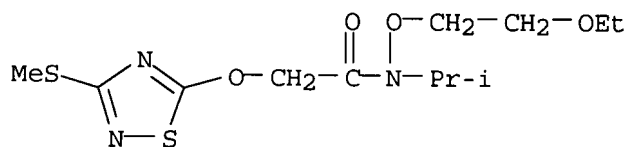
RN 79088-55-4 HCAPLUS

CN Acetamide, N-(2-ethoxyethoxy)-N-(1-methylethyl)-2-[[3-[(phenylmethyl)thio]-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



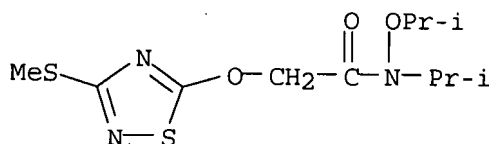
RN 79088-62-3 HCAPLUS

CN Acetamide, N-(2-ethoxyethoxy)-N-(1-methylethyl)-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



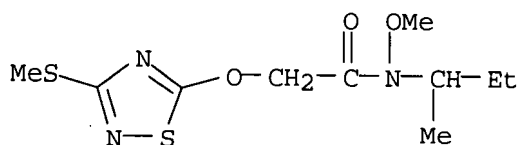
RN 79088-63-4 HCAPLUS

CN Acetamide, N-(1-methylethoxy)-N-(1-methylethyl)-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



RN 79088-64-5 HCAPLUS

CN Acetamide, N-methoxy-N-(1-methylpropyl)-2-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



L13 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:407285 HCAPLUS

DOCUMENT NUMBER: 95:7285

TITLE: Herbicidal azolyloxycarboxylic amides

INVENTOR(S): Foerster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; Schmidt, Robert Rudolf

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 55 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 3

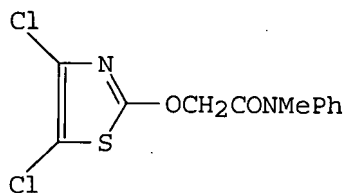
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2914003	A1	19801016	DE 1979-2914003	19790406
EP 18497	A1	19801112	EP 1980-101586	19800326
EP 18497	B1	19820428		
R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
AT 917	E	19820515	AT 1980-101586	19800326
DK 8001435	A	19801007	DK 1980-1435	19800402
DK 164503	B	19920706		
DK 164503	C	19921123		
BR 8002088	A	19801125	BR 1980-2088	19800402
ES 490253	A1	19810716	ES 1980-490253	19800402

AU 8057151	A1	19801009	AU 1980-57151	19800403
AU 540477	B2	19841122		
ZA 8002020	A	19810729	ZA 1980-2020	19800403
DD 149992	C	19810812	DD 1980-220209	19800403
CA 1151177	A1	19830802	CA 1980-349179	19800403
HU 26091	O	19830928	HU 1980-804	19800403
HU 185881	B	19850428		
IL 59755	A1	19831230	IL 1980-59755	19800403
JP 01042949	B4	19890918	JP 1980-45538	19800407
US 4756741	A	19880712	US 1986-819200	19860115 <--
PRIORITY APPLN. INFO.:			DE 1979-2914003	A 19790406
			DE 1980-3004326	A 19800206
			US 1980-132055	A1 19800320
			EP 1980-101586	A 19800326
			US 1983-526518	A3 19830826

OTHER SOURCE(S): CASREACT 95:7285

GI



AB The title carboxamides ROCHR1CONR2R3 [R = 5-membered heteroaryl containing 1 O or 1 S atom and addnl. 1-3 N atoms, optionally substituted by halo, NO2, cyano, NH2, (di)alkylamino, alkylcarbonylamino, alkylcarbonyl, CO2H, alkoxycarbonyl, CONH2, (di) alkylaminocarbonyl, by halo-, nitro-, or alkyl-substituted arylaminocarbonyl, by halo-, nitro-, cyano-, alkyl-, or alkoxy-substituted aryl, by halo-substituted aralkyl, by halo-substituted alkoxy, alkenyloxy, alkynyloxy, alkoxycarbonylalkoxy, aralkoxy, or aryloxy, by halo-substituted alkylthio and S-oxides, alkenylthio, alkynylthio, alkoxycarbonylalkylthio, aralkylthio, or arylthio, by halo-substituted alkyl, alkenyl, or alkynyl, alkoxyalkyl, aralkoxyalkyl, aryloxyalkyl, alkylthioalkyl and S-oxides, arylthioalkyl and S-oxides, carboxyalkyl, alkoxycarbonylalkyl, optionally substituted aminocarbonylalkyl, cyanoalkyl, or cycloalkyl; R1 = H, alkyl; R2, R3 independently = H, optionally substituted aliphatic, aralkyl, cycloalkyl, aryl, N-containing heterocyclyl; NR2R3 = optionally substituted, partially unsatd., or benzannulated mono- or bicyclic moiety], useful as pre- or post-emergence herbicides (no data), were prepared Thus, treating ClCH2CONMePh with NaOAc in PhMe 4 h at 115-20° gave 99% AcOCH2CONMePh which was saponified with NaOH in refluxing MeOH 4 h to give 98% HOCH2CONMePh. Etherifying this in Me2CHOH with powdered KOH, then 2,4,5-trichlorothiazole at -15 to -10° gave 81% ether-anilide I.

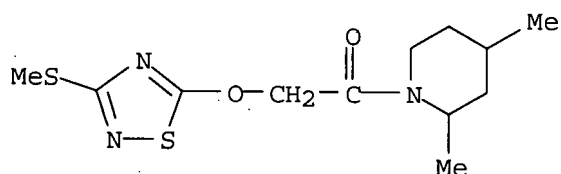
IT 76668-01-4P 76668-25-2P 76668-26-3P
76668-27-4P 76668-28-5P 76668-29-6P
76668-30-9P 76668-82-1P 76668-83-2P
76668-84-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 76668-01-4 HCAPLUS

11/05/2006

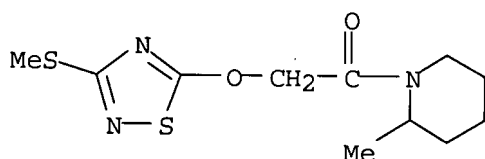
10528398.trn

CN Piperidine, 2,4-dimethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



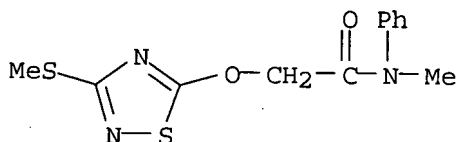
RN 76668-25-2 HCAPLUS

CN Piperidine, 2-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



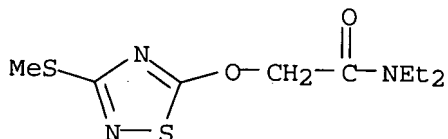
RN 76668-26-3 HCAPLUS

CN Acetamide, N-methyl-2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl]- (9CI) (CA INDEX NAME)



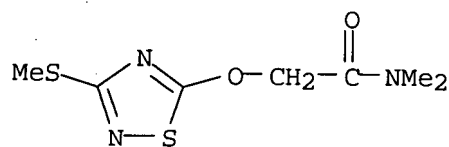
RN 76668-27-4 HCAPLUS

CN Acetamide, N,N-diethyl-2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

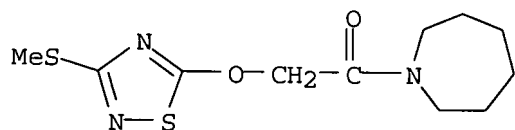


RN 76668-28-5 HCAPLUS

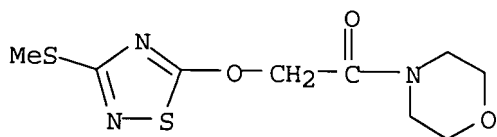
CN Acetamide, N,N-dimethyl-2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



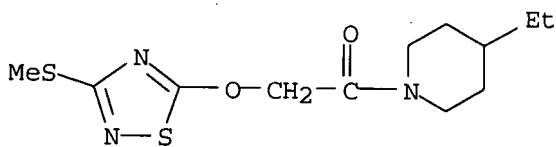
RN 76668-29-6 HCAPLUS
 CN 1H-Azepine, hexahydro-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



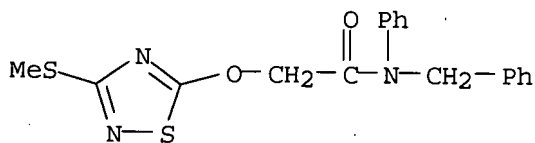
RN 76668-30-9 HCAPLUS
 CN Morpholine, 4-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



RN 76668-82-1 HCAPLUS
 CN Piperidine, 4-ethyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)



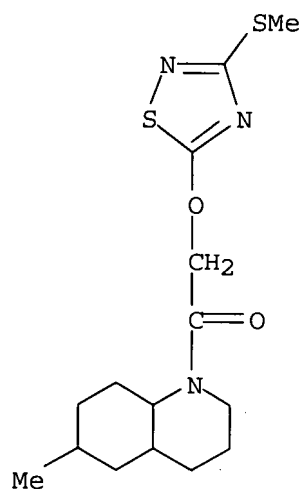
RN 76668-83-2 HCAPLUS
 CN Acetamide, 2-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]-N-phenyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 76668-84-3 HCAPLUS
 CN Quinoline, decahydro-6-methyl-1-[[[3-(methylthio)-1,2,4-thiadiazol-5-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

11/05/2006

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE

ENTRY

86.72

SINCE FILE

ENTRY

-10.50

TOTAL

SESSION

433.46

TOTAL

SESSION

-10.50

STN INTERNATIONAL LOGOFF AT 08:26:04 ON 05 NOV 2006